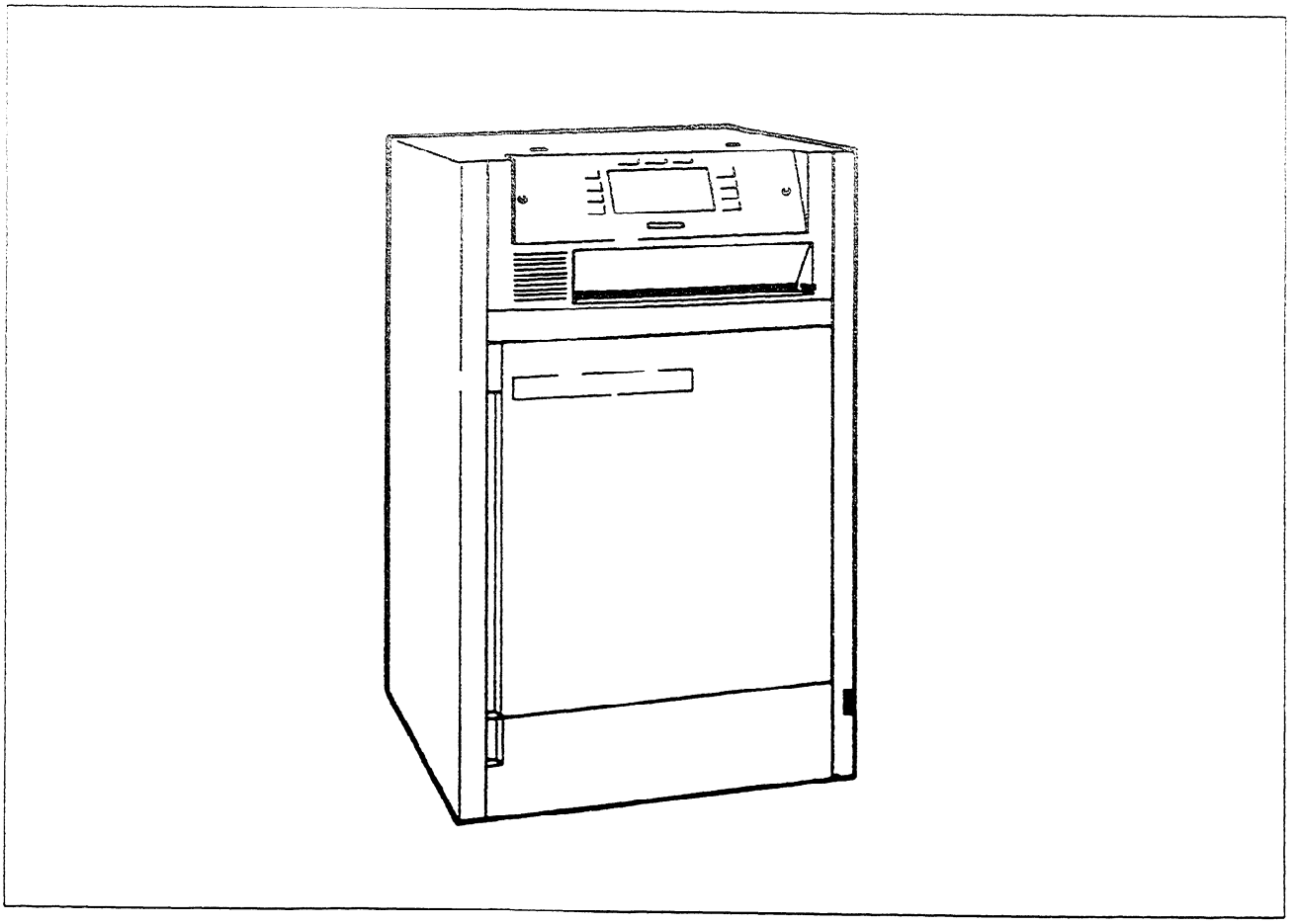
Publication No. WD 3053
1/1990

WIRING DIAGRAMS

FOR THE

Kodak

Multiloader 700



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FILM POCKET POSITION PCB A10
MAG.SOLENOIDS 11–17
Z
B30/MBF
MAG.BLOCKED BY FILM
B21/MMC
MAG.MOTOR CLOSED
B20/MMO
MAG.MOTOR OPEN
B19/HP
HOME POSITION
B18/LL
LOWER LIMIT
B17/UL
UPPER LIMIT
POWER SUPPLY
24V - V2
24V - V3
5V - V1
5V - V4
5V V1
FUSE 60 Hz ONLY
5V V4
INTERLOCK OVERRIDE LOW
FRONTDOOR INTERLOCK LOW
CASSETTE TRANSPORT
CASSETTE CENTERING
CASSETTE OPENING
CASSETTE UNLOADING
FILMTRANSPORT
MAGAZINE OPENING
MAG.FILM PICK UP
COMPRESSOR
VACUUM PUMP MAG.
VACUUM PUMP CASS.
CASS.VACUUM ON
CASS.AIR ON
MAG.VACUUM ON
MAG.AIR ON
WHITNEY
MAG.AIR INTO SUCKERS
DOOR SOLENOID TOP
DOOR SOLENOID BOTTOM
PROCESSOR START
IOL
FIL
S23
S21
M1 M2 M3 M4 M5 M6 M7 M9 M10 M11 SV1 SV2 SV3 SV4 SV5 SV6 L8 L10 X1 X50
S28 COM
SV7
S29 VPM
S30 VPC
COUNTER
S27 CSW
COUNTER SWITCH
POWER ELECTRONIC PCB A4
B9/MFP
MAG.FILM PIN
B12/TP
TRANSPORT POSITION
B10/ME
MAG. EMPTY
B11/MSI
MAG.SUCKER BAR IN
FILM SENSOR PCB A11
FILM POCKET PCB A7
B16/MAE
MAG.ALMOST EMPTY
B15/RP
REFERENCE POSITION
B14/DFS
DOUBLE FILM SENSOR
B13/TP1
TRANSPORT POS.1
M8
STEPPER MOTOR
POWER AMPLIFIER PCB A3
SLAVE PROCESSOR 8032
PCB A2
RESET
OPERATOR KEYBOARD
LIGHT BAR PCB A14
OPERATOR CONTROL PCB A12
DISPLAY
DISTRIBUTION PCB A1
SELECT C1 OR C3
PRINTER INTERFACE PCB A13
SERVICE KEYPAD
PRINTER CONTROL PCB A15
PRINTER
TIMER
MASTER PROCESSOR PCB A0
RESET
S4
S12/CSO
CASS. SUCKERBAR OUT
S11/CSI
CASS. SUCKERBAR IN
B8/TSF
TUNNEL SENSOR FRONT
B7/TSR
TUNNEL SENSOR REAR
S13/CES
CASS. END SWITCH
B4/FPDT
FILM PRESENCE DETECTOR TOP
INTER-FACE(B) PCB A9
S20/TIL
TUNNEL INTERLOCK LOW
B5/FPDB
FILM PRESENCE DETECTOR BOTTOM
B6/FOC
FILM OUT OF CASSETTE
B28/IS2
INDUCTIVE SENSOR2
B29/IS1
INDUCTIVE SENSOR1
S22 CIL
COVER INTERLOCK LOW
S2/CW0
CASSETTE WIDTH 0
S10/CCI
CASSETTE CENTERING IN
S9/CCO
CASSETTE CENTERING OUT
S5/PRU
PRESSURE ROLLER UP
S6/PRD
PRESSURE ROLLER DOWN
S8/PRL
PRESSURE ROLLER LIFTED
S3/CW1
CASSETTE WIDTH 1
INTER-FACE(A) PCB A8
B1/CS
CASS. SIZE
S14/CCS
CASSETTE CENTERING LEFT
S15/CCS
STOP RIGHT
S4/OC
OPEN CASSETTE
S1/CO
CASSETTE OPEN
B3/FPDT
B2/FPDB
FRONT DOOR INTERLOCK FI
COVER INTERLOCK CI
IO INTERLOCK OVERRIDE
EMI FILTER 1
EMI FILTER 2
TERMINAL BLOCK X 100
TERMINAL BLOCK X 200
MAGAZINE SIZE DECODER PCB A5
Z
PRDY PROC.READY (FROM PROCESSOR)
B22 B23 B24 B25 B26
MAG.COVER OPEN MCO
MAGAZINE SIZE SENSOR
PCB A6 (7x)
B27 (7x)
MAINS
TERMINAL BLOCK X 150
EMI FILTER 3
MAIN SWITCH
FAN COVER M12
FAN DRAWER M13
AUTO TRANS FORMER
TERMINAL BLOCK X 100
HUMIDIFIER PCB A16
B31
R.H. %
HUMIDITY SENSOR
FAN M14
HUMIDIFIER HARDWARE

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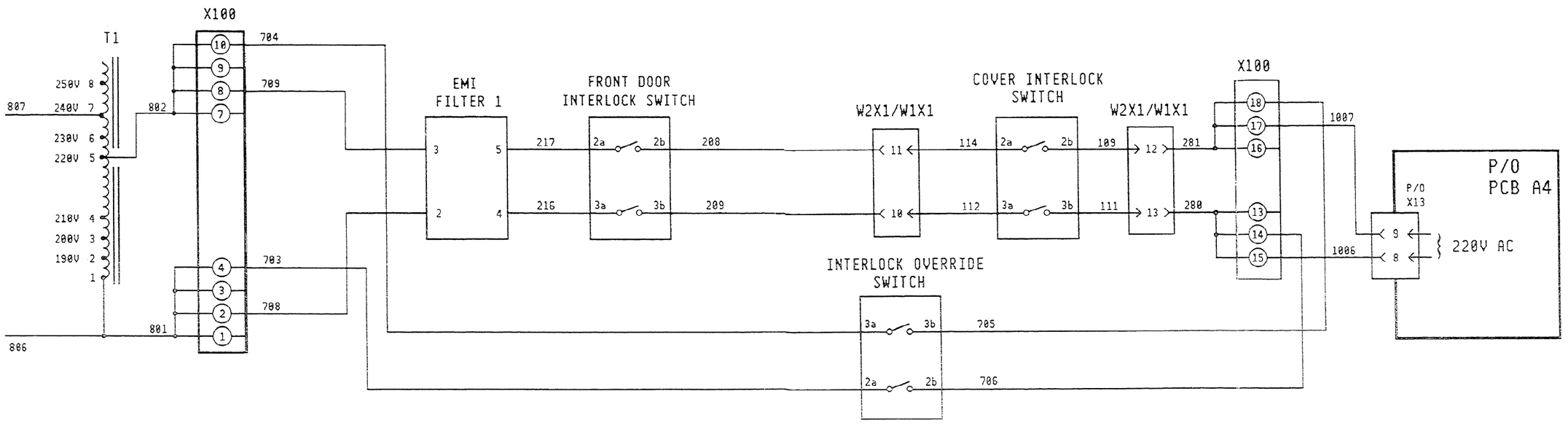
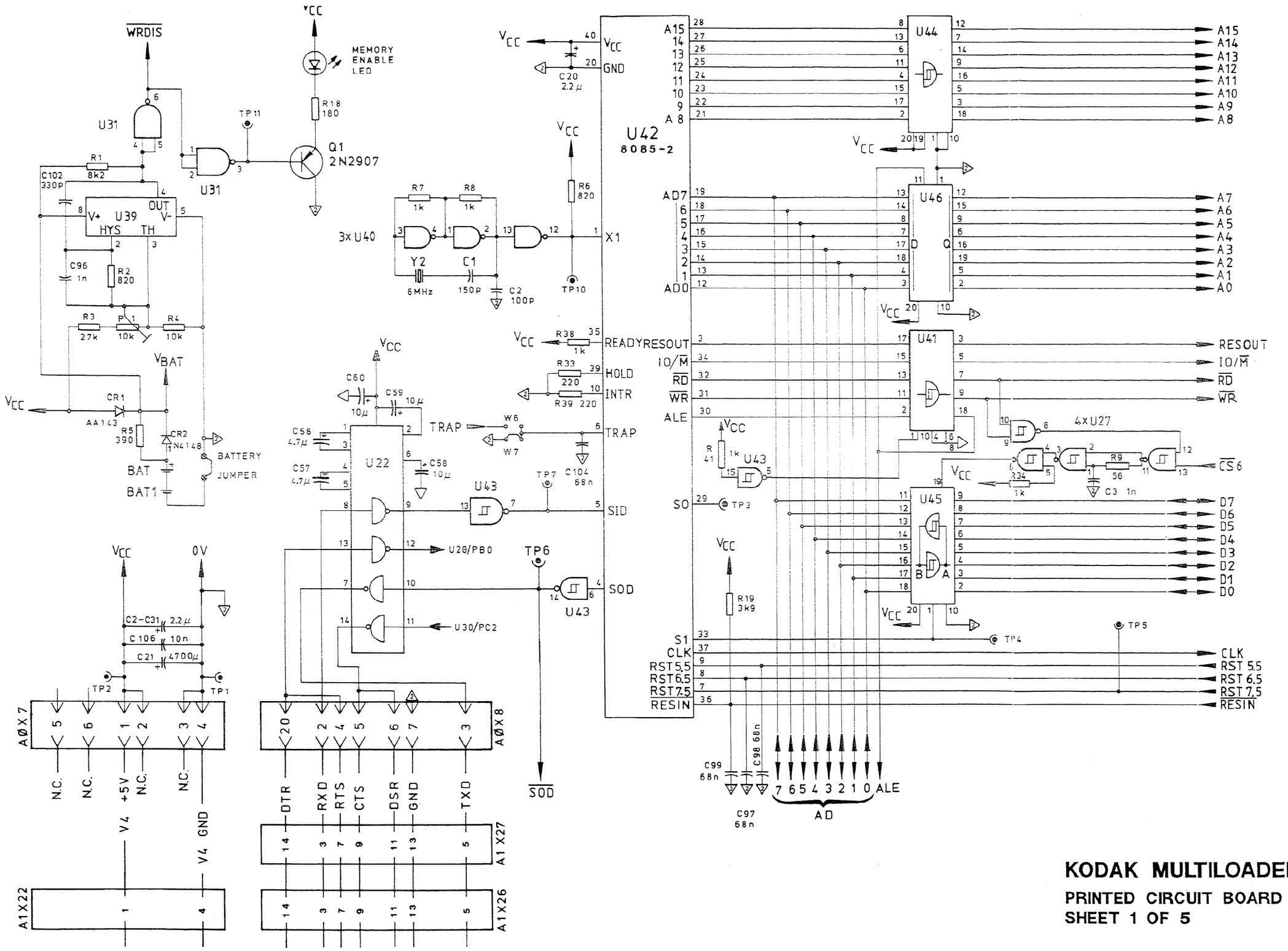
BLOCK DIAGRAM



KODAK MULTILOADER 700
INTERLOCK DIAGRAM

WD 3053



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KODAK MULTILOADER 700

PRINTED CIRCUIT BOARD A0
SHEET 1 OF 5

C4-C7, C9
2.2 µ

A15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 IO/M RD WR WRDIS D7 6 5 4 3 2 1 0

U33 27128 ADDR. 0000H
U34 27128 ADDR. 4000H
U35 27128 ADDR. 8000H
U36 TC 5564 PL-15 ADDR. C000H
U37 TC 5517AP ADDR. F000H
U38 PAL12 L10

C4 C5 C6 C8 10µ C9
C7 1k R23
W8 W9
R10 2k2
W5
R22 2k2
R11 2k2
C103 10n
U51 U52

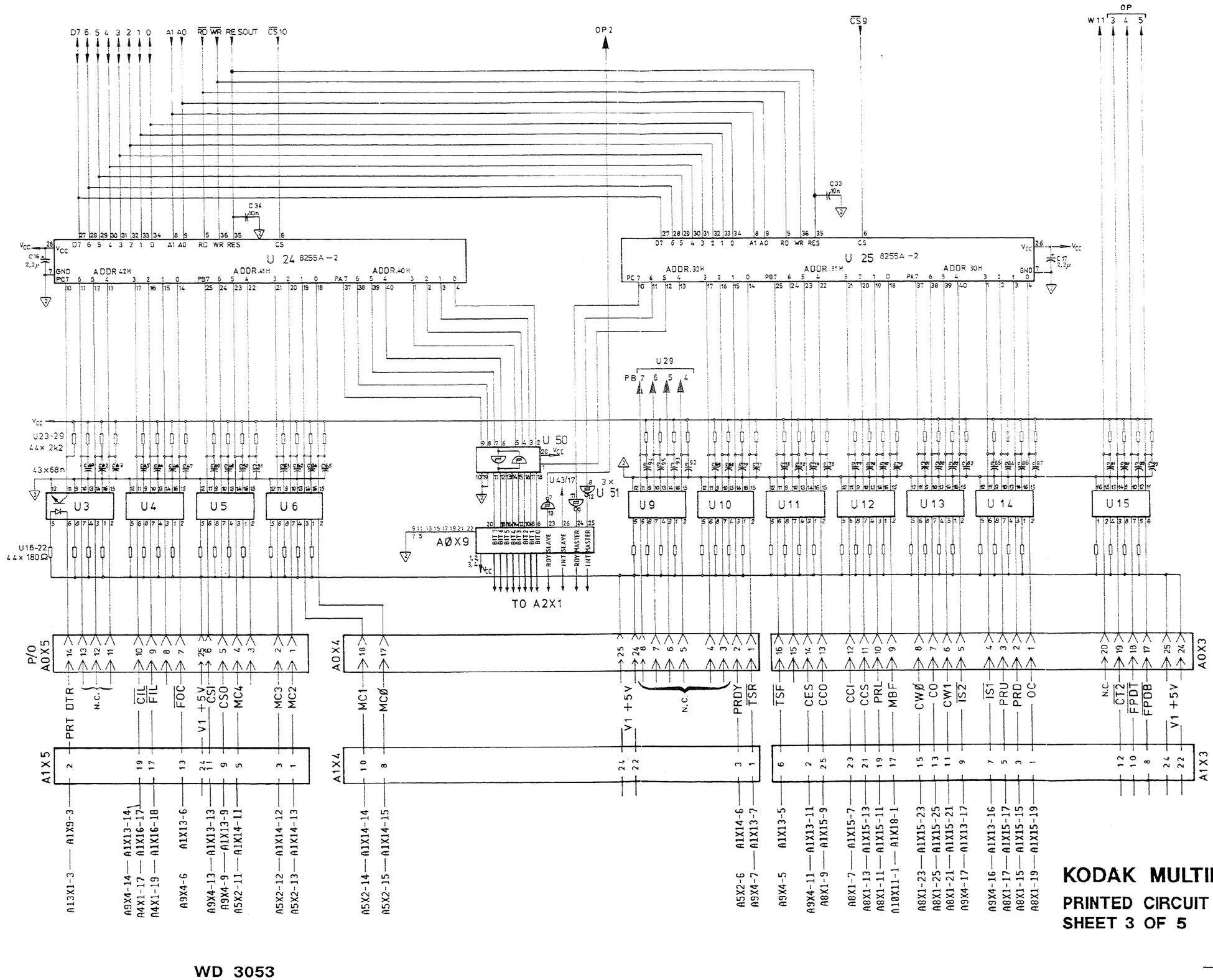
WR AØX11

PCM VPP VCC GND
CE CE1 CE2 OE WE R/W
CS CS1 CS2 CS3 CS4 CS5 CS6
RD WRDIS
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13
D0 D1 D2 D3 D4 D5 D6 D7
IN OUT
10/M

CS10 CS9 CS8 CS7 CS6 CS5 CS4 CS3 CS2 CS1

KODAK MULTILOADER 700

PRINTED CIRCUIT BOARD A0
SHEET 2 OF 5



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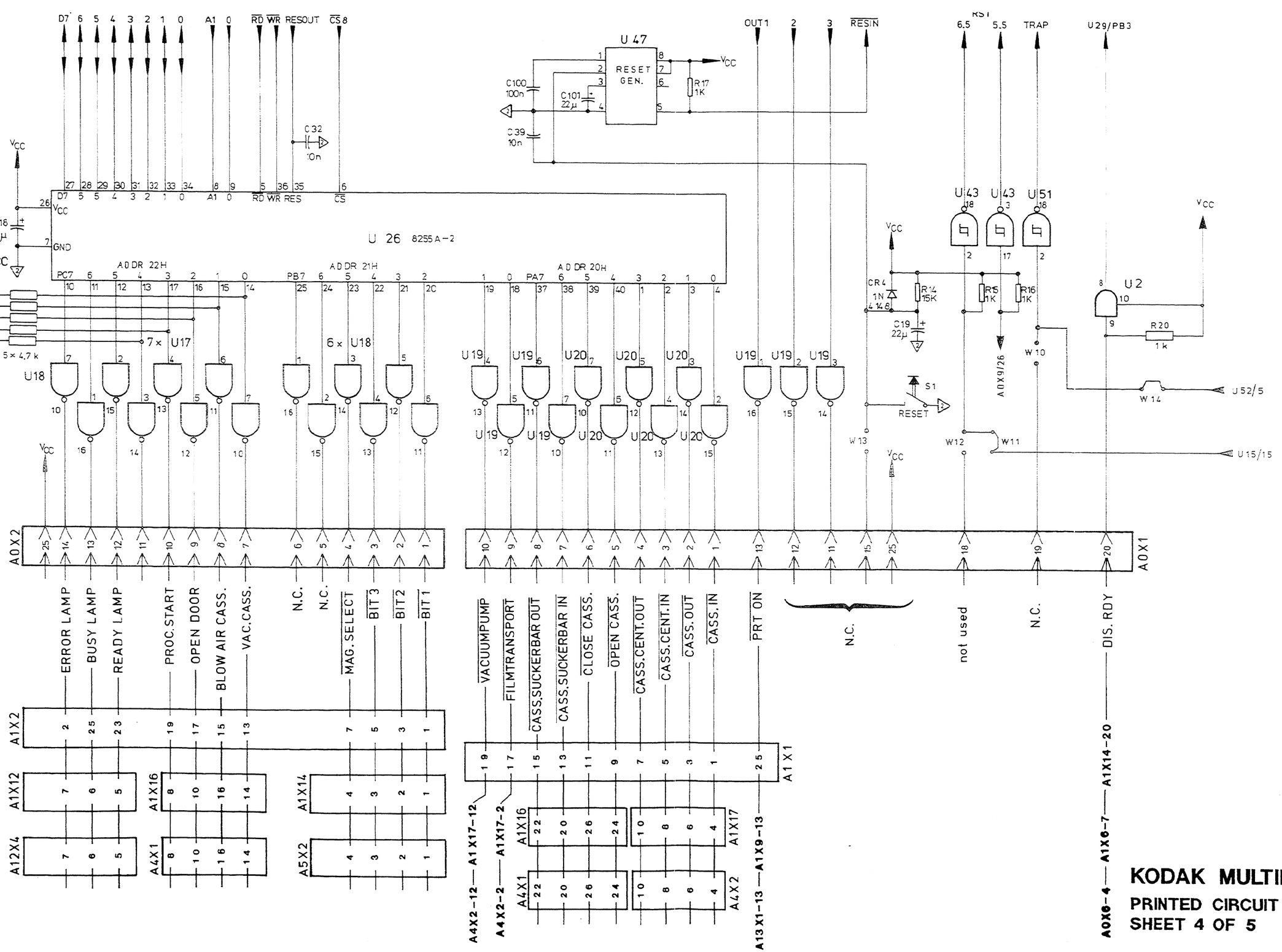
PRINTED CIRCUIT BOARD A0
SHEET 3 OF 5



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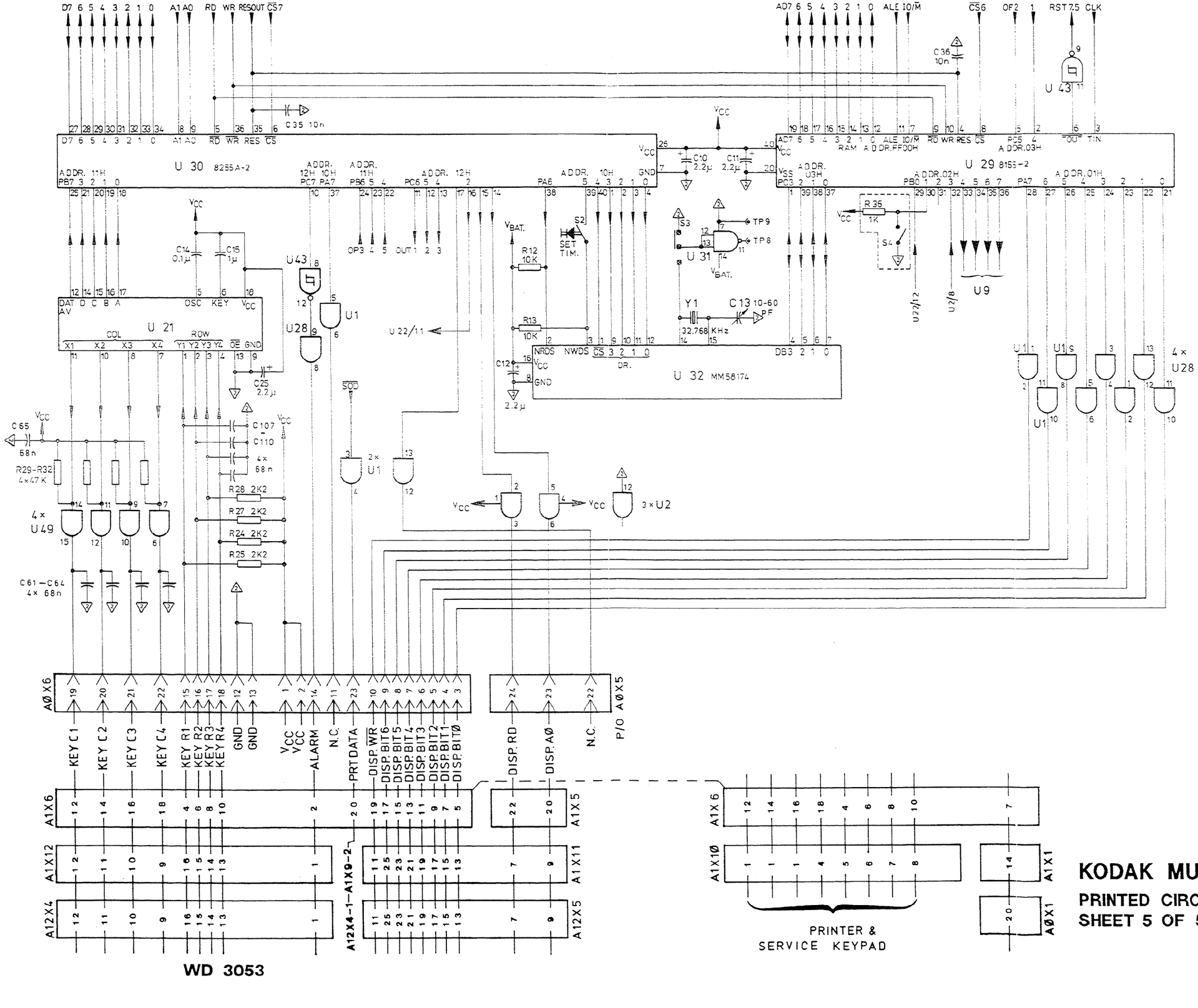
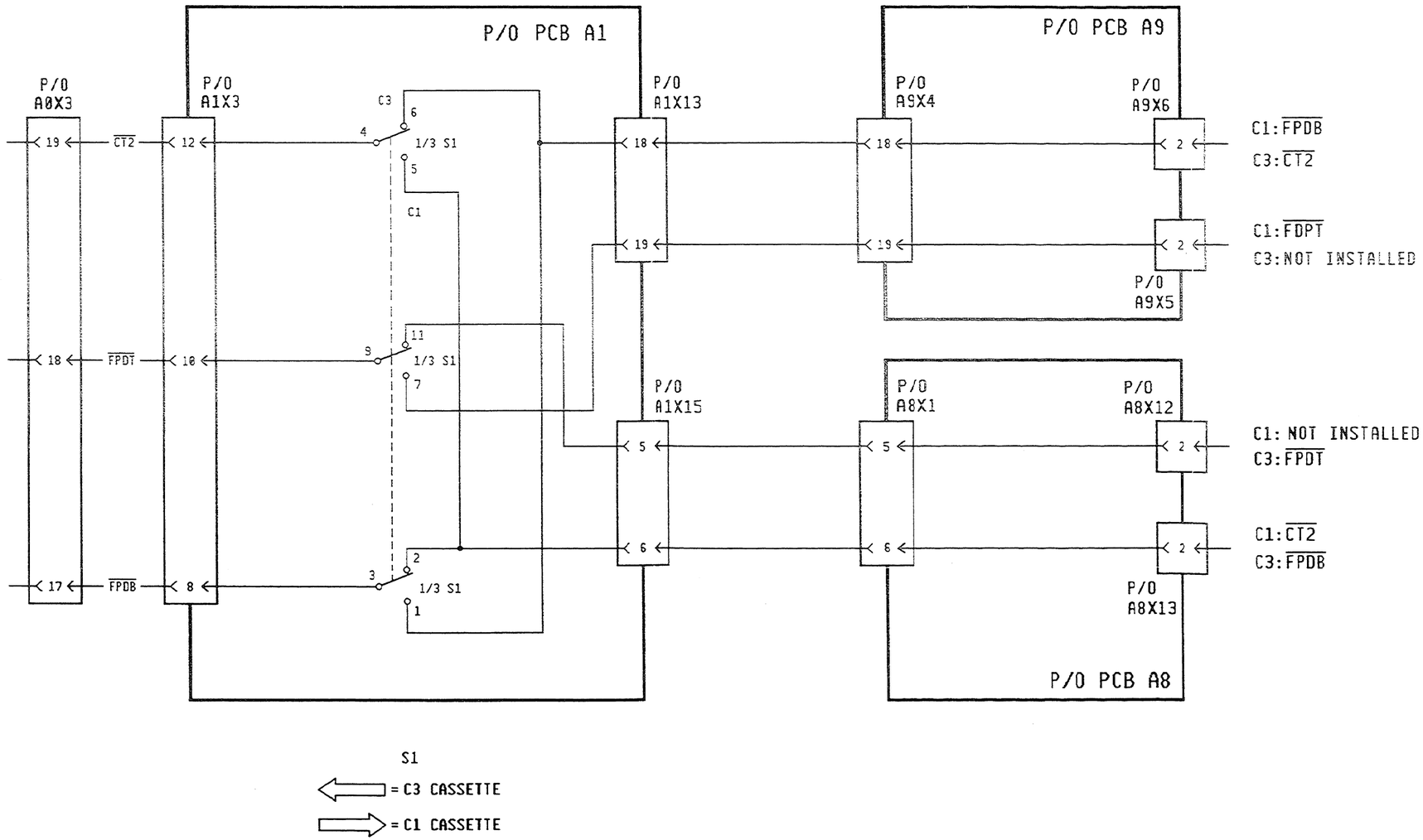
KODAK MULTILOADER 700

PRINTED CIRCUIT BOARD A0
SHEET 4 OF 5

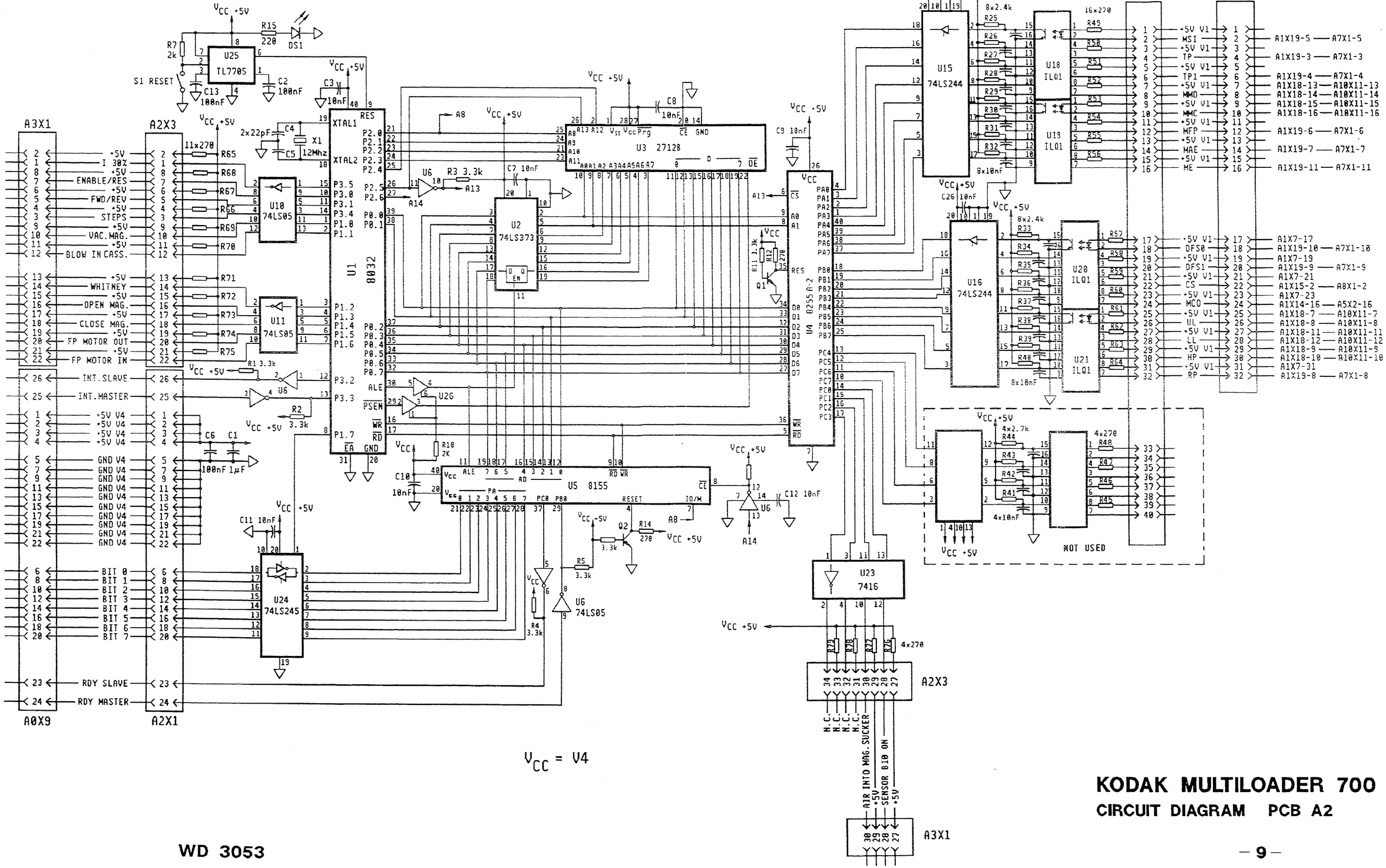


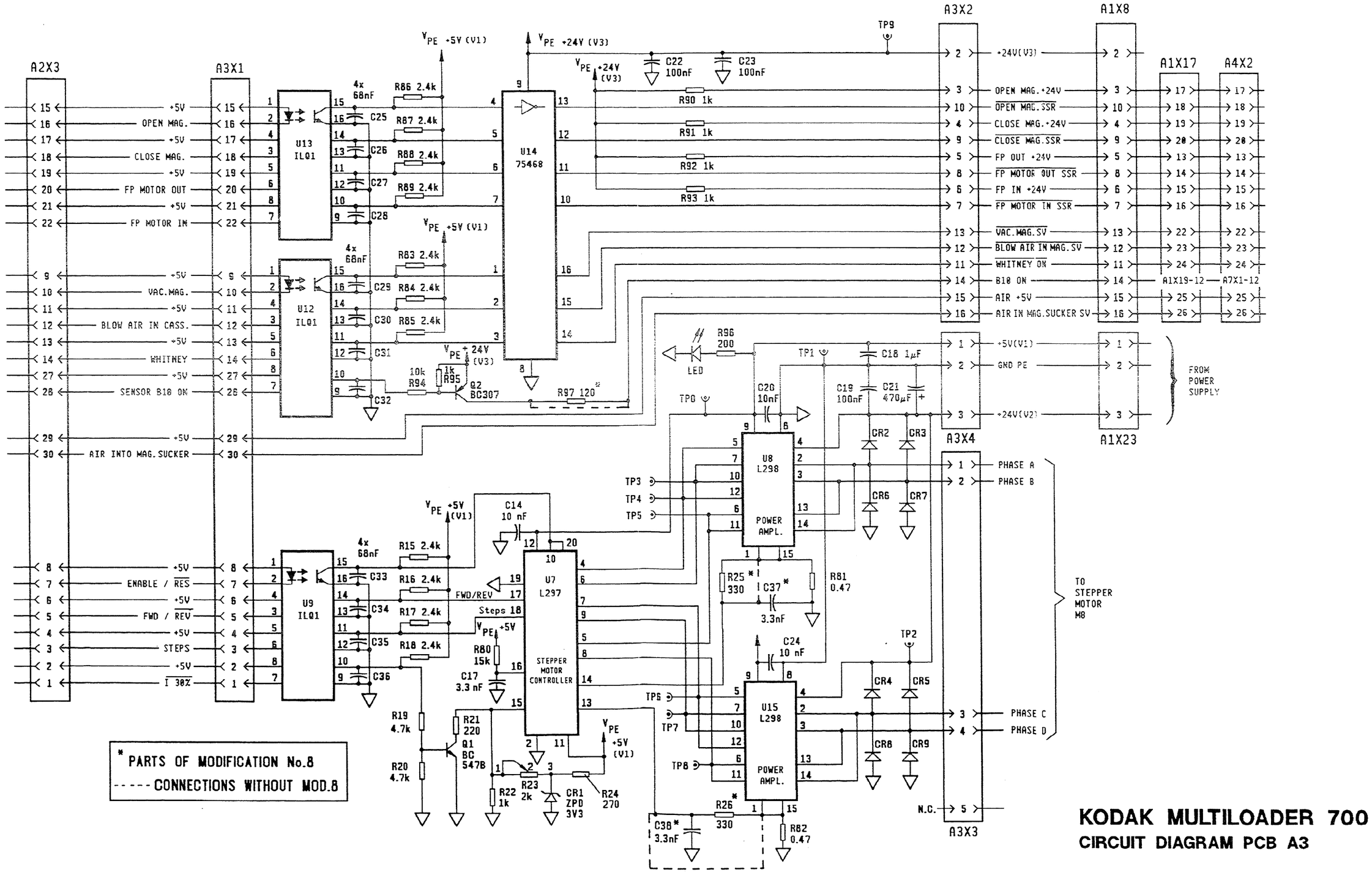
KODAK MULTILOADER 700

PRINTED CIRCUIT BOARD A0
SHEET 5 OF 5



KODAK MULTILOADER 700
CIRCUIT DIAGRAM PCB A1


A3X1
A2X3
A0X9
A2X1
U1
8032
U25
TL7705
S1 RESET
DS1
U10
74LS05
U11
74LS05
U24
74LS245
U2
74LS373
U3 27128
U4 8255 A-2
U5 8155
U6
74LS05
U15
74LS244
U16
74LS244
U18
ILQ1
U19
ILQ1
U20
ILQ1
U21
ILQ1
U23
7416
A2X2
A1X7
NOT USED
A3X1
A2X3
A0X9
A2X1
V_{CC} = V4
KODAK MULTILOADER 700
CIRCUIT DIAGRAM PCB A2
WD 3053
– 9 –



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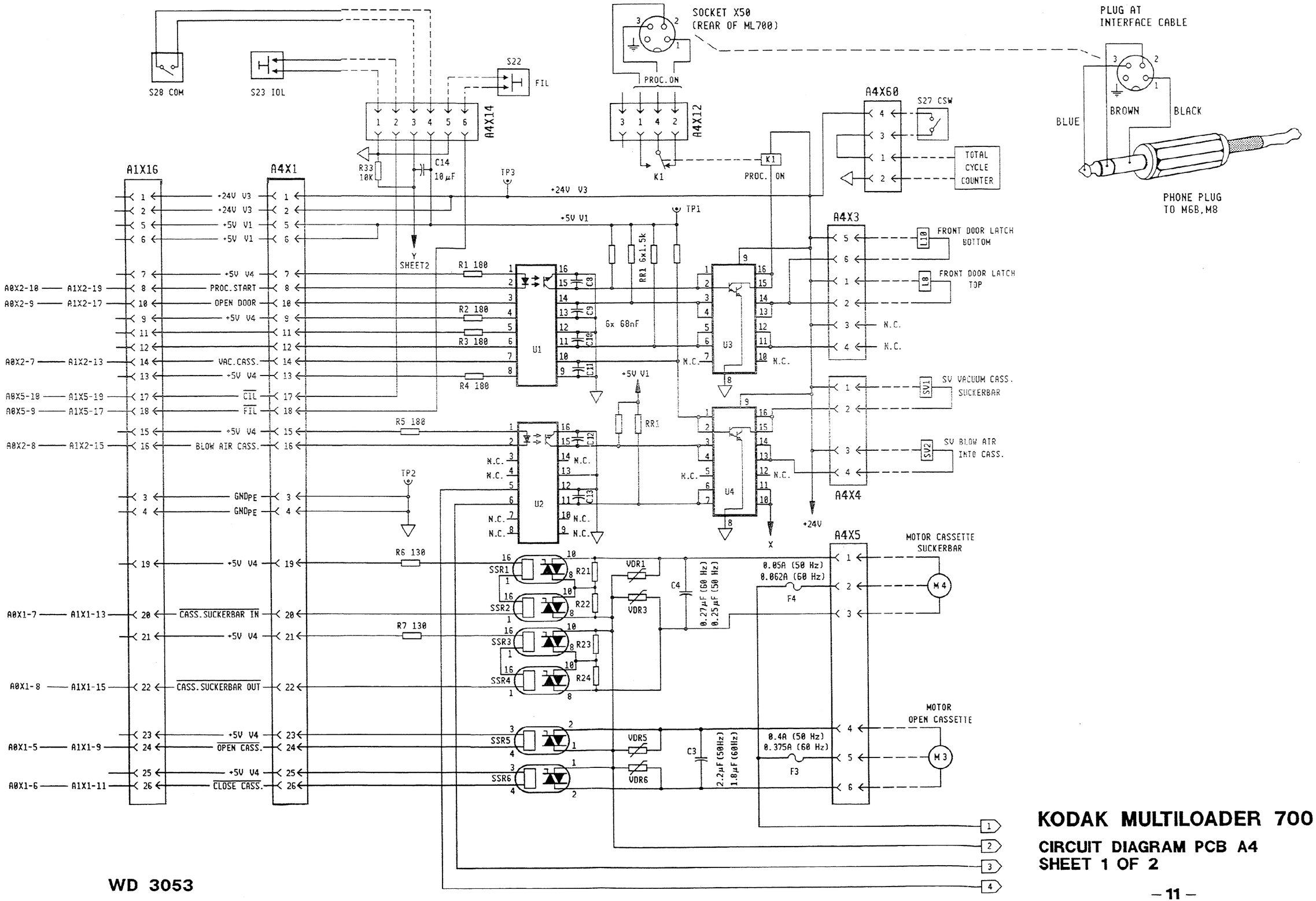
CIRCUIT DIAGRAM PCB A3

WD 3053



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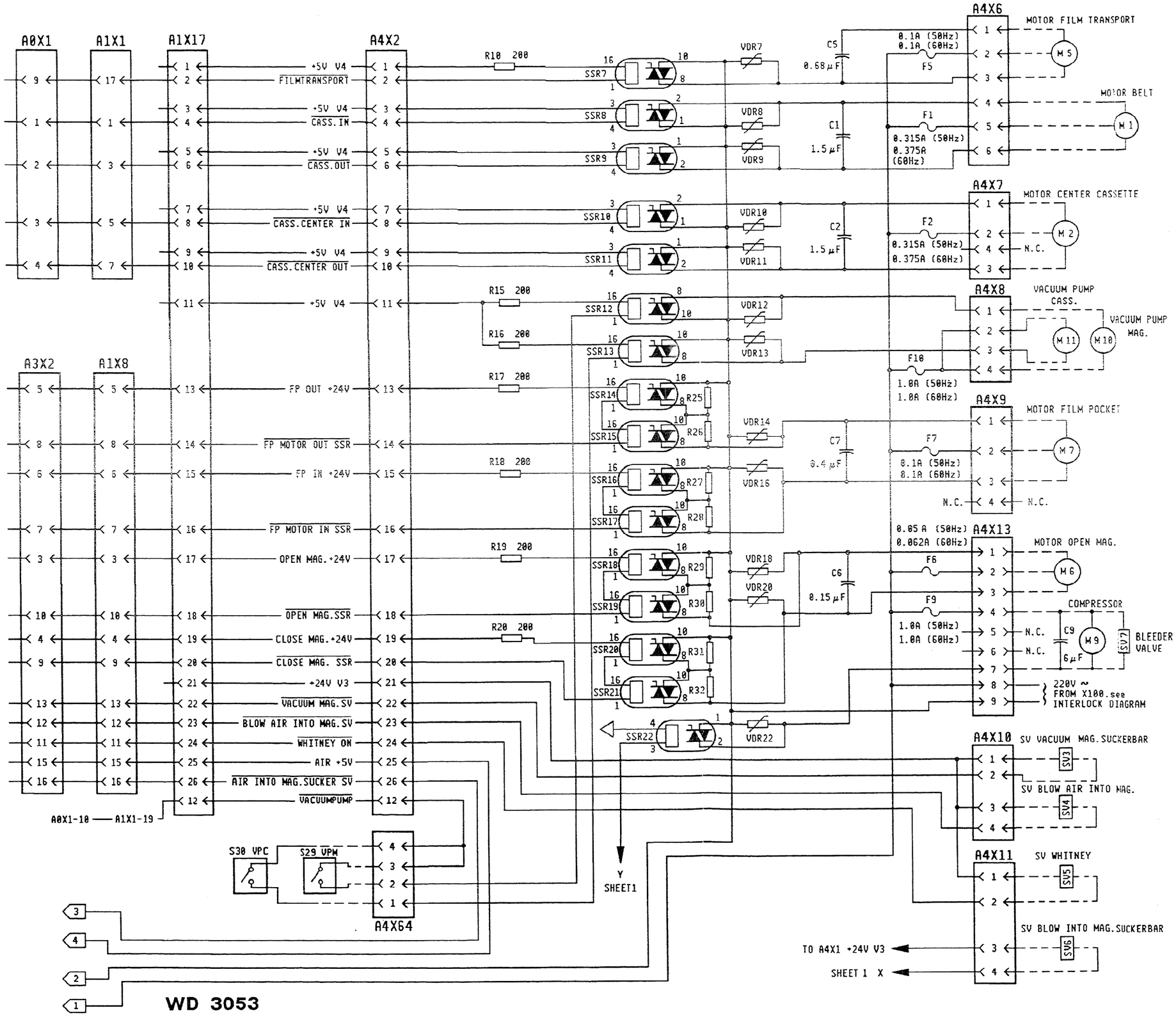
CIRCUIT DIAGRAM PCB A4
SHEET 1 OF 2



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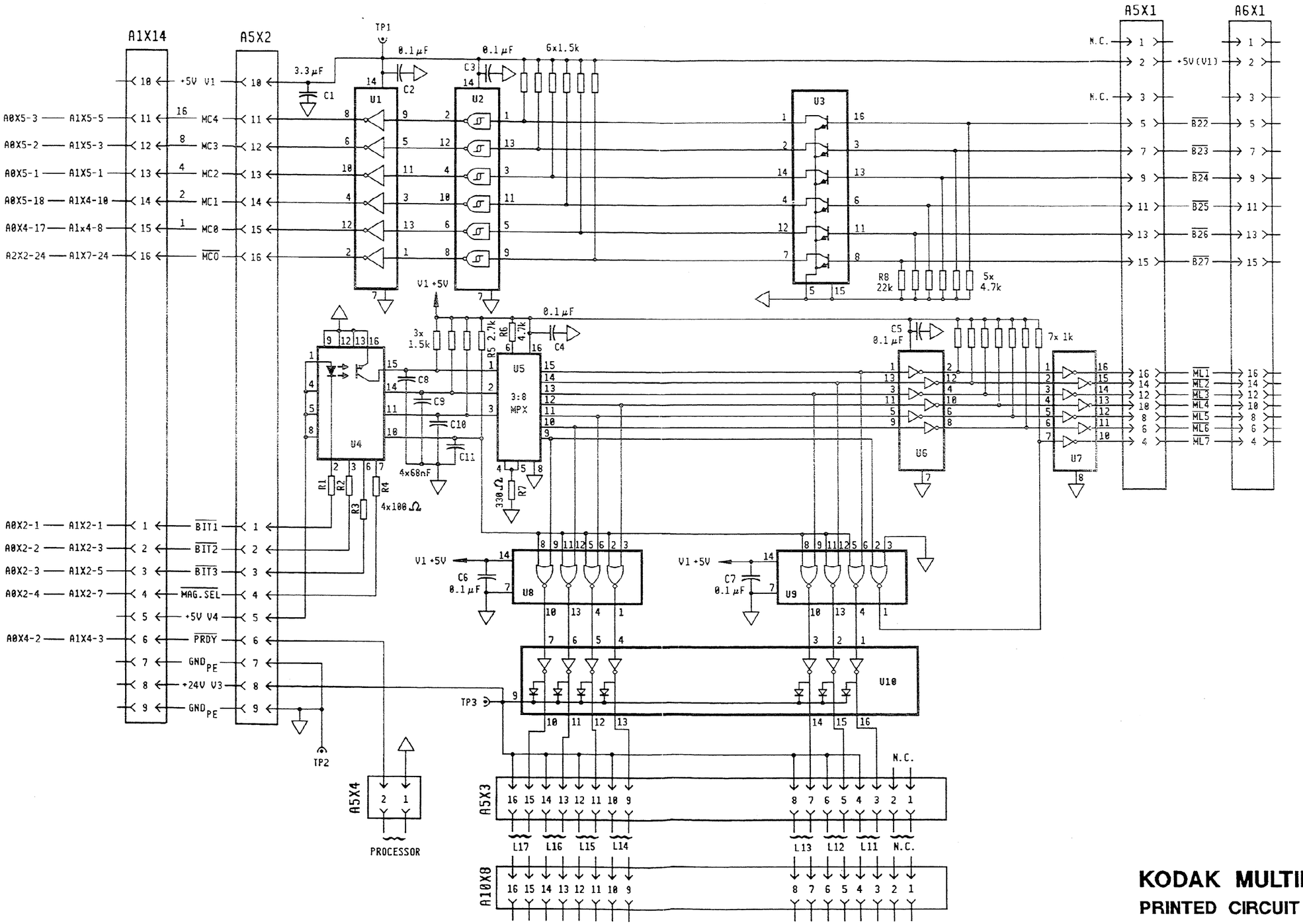
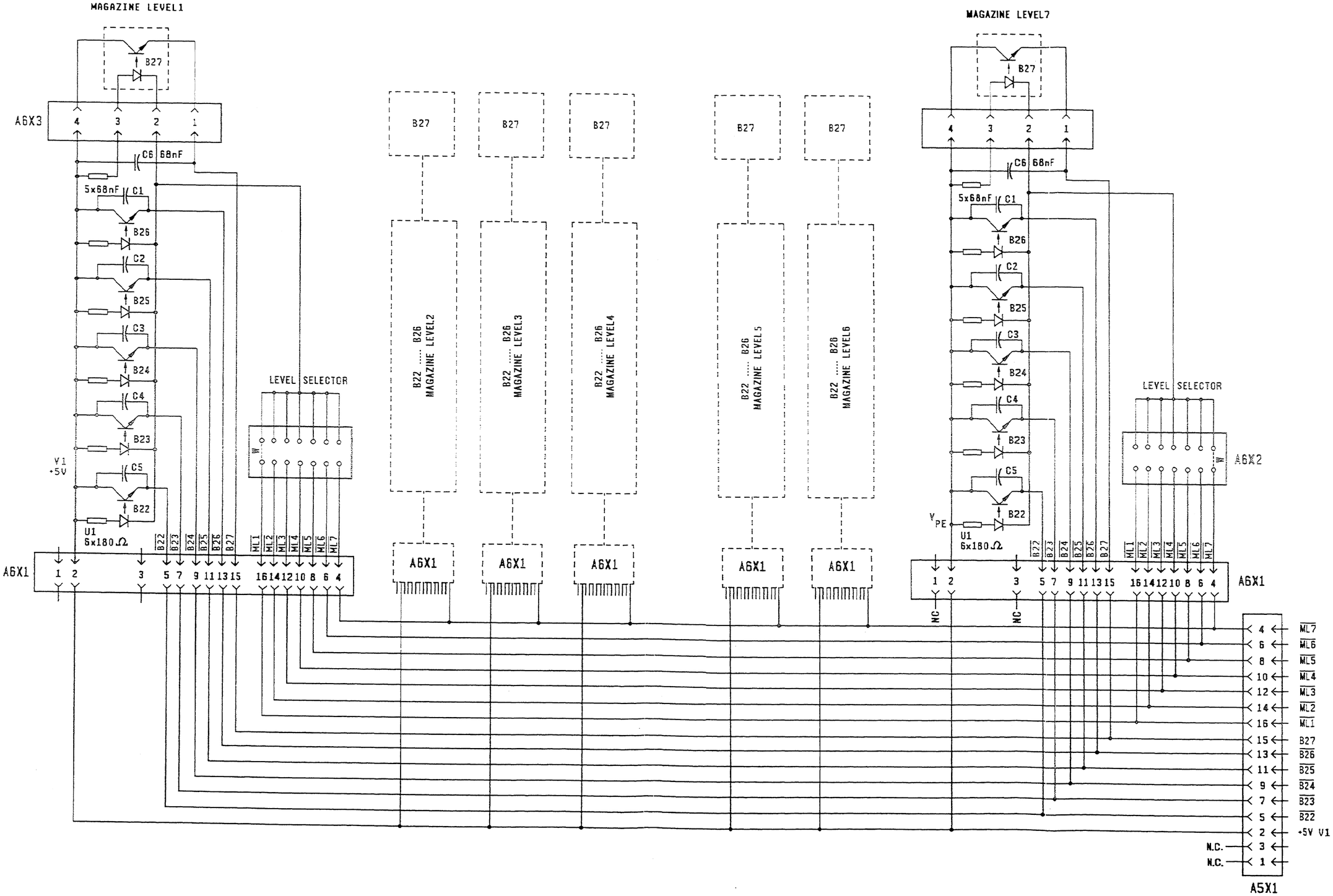
CIRCUIT DIAGRAM PCB A4
SHEET 2 OF 2



KODAK MULTILOADER 700
PRINTED CIRCUIT BOARD A5

WD 3053



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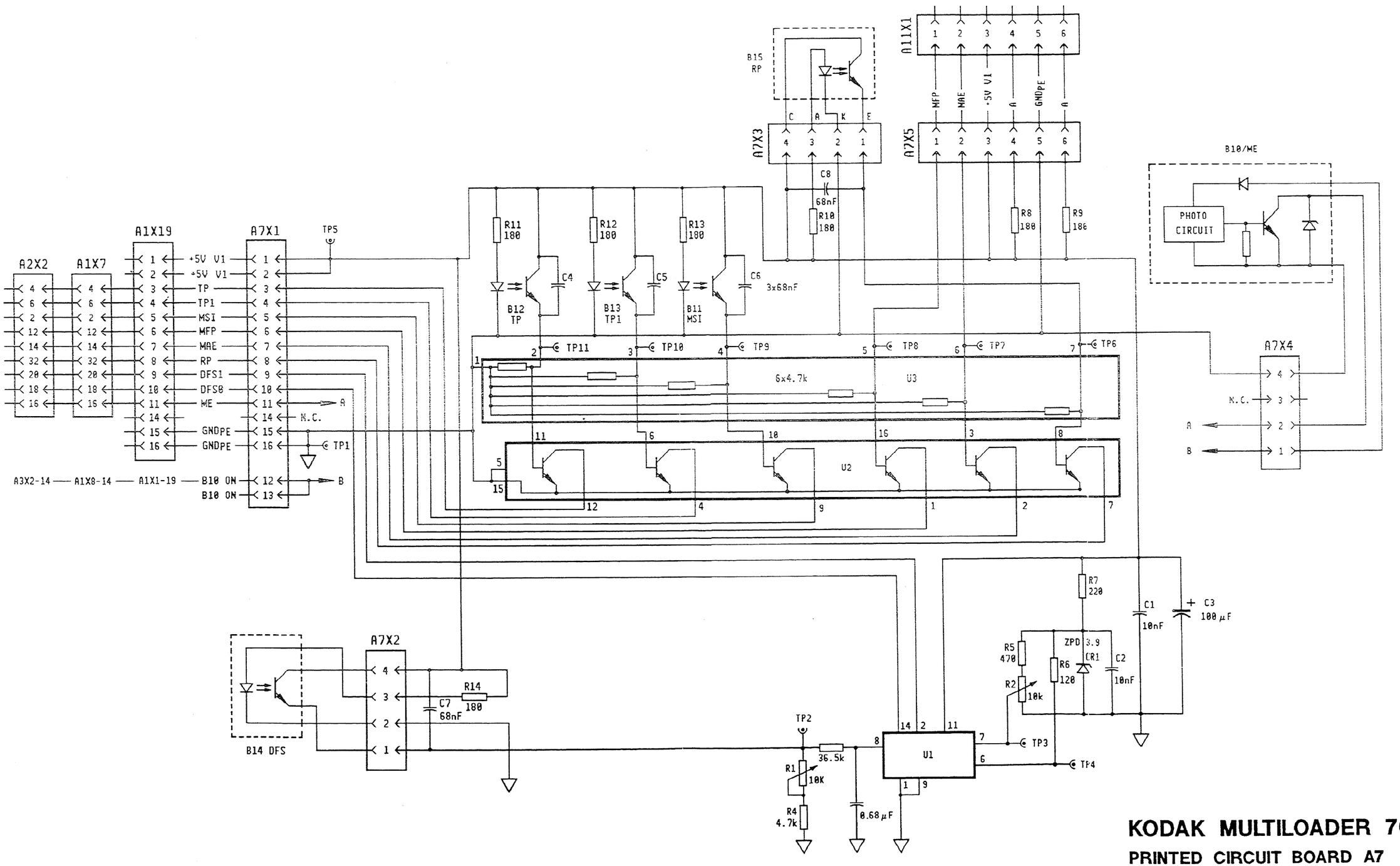
KODAK MULTILOADER 700

PRINTED CIRCUIT BOARD A6

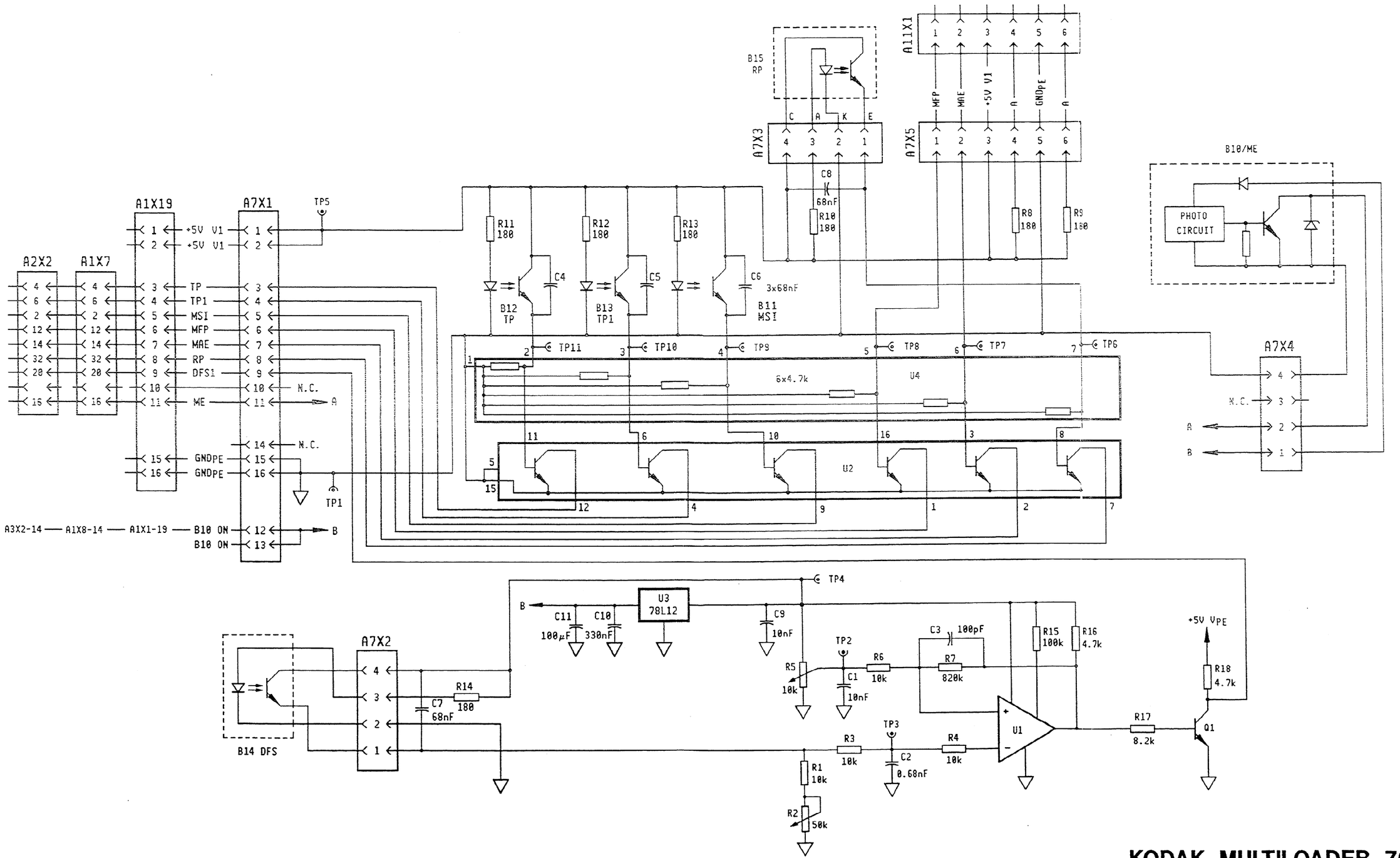


KODAK MULTILOADER 700

PRINTED CIRCUIT BOARD A7

up to Serial Number 1022

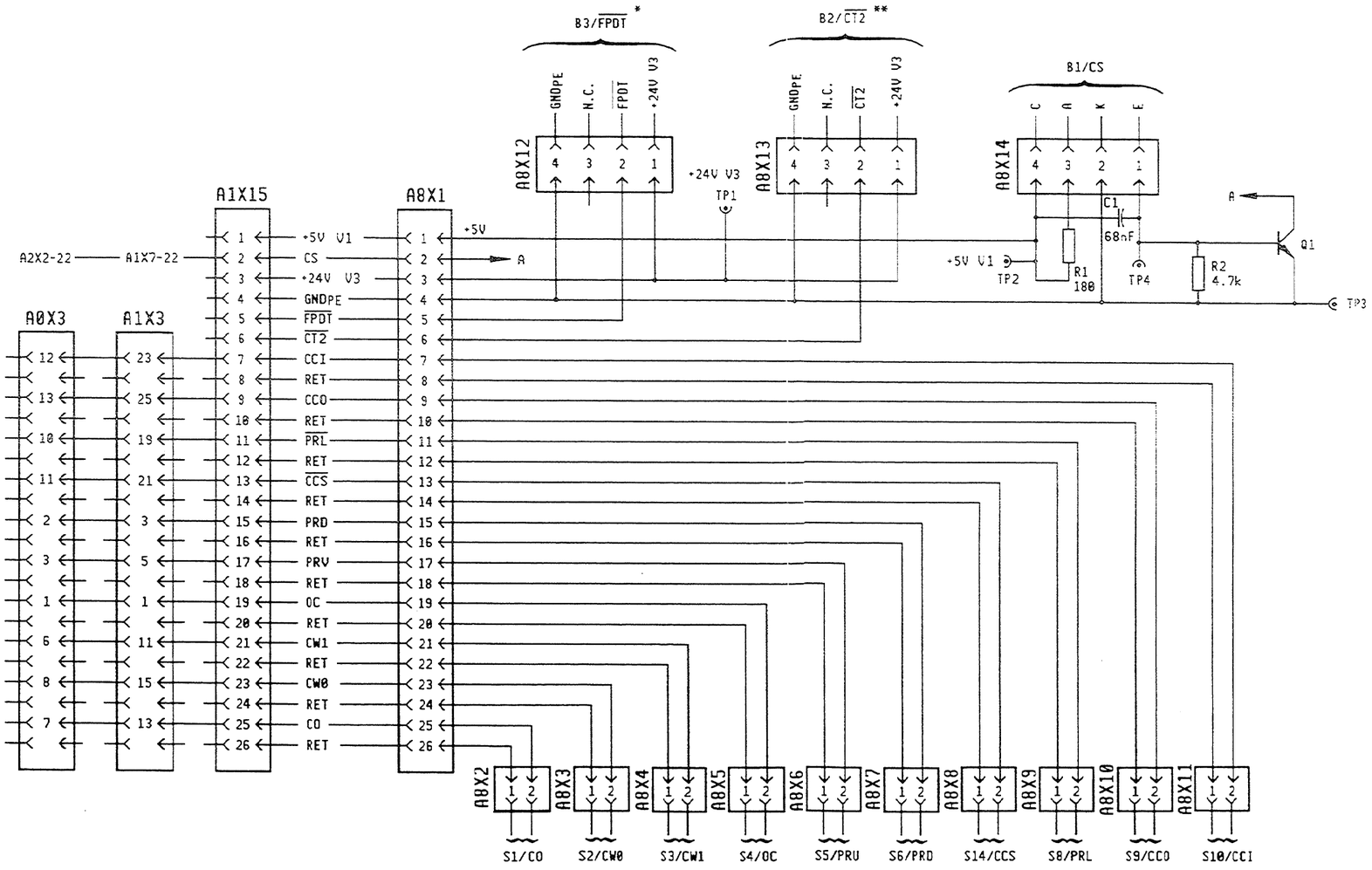
WD 3053



KODAK MULTILOADER 700

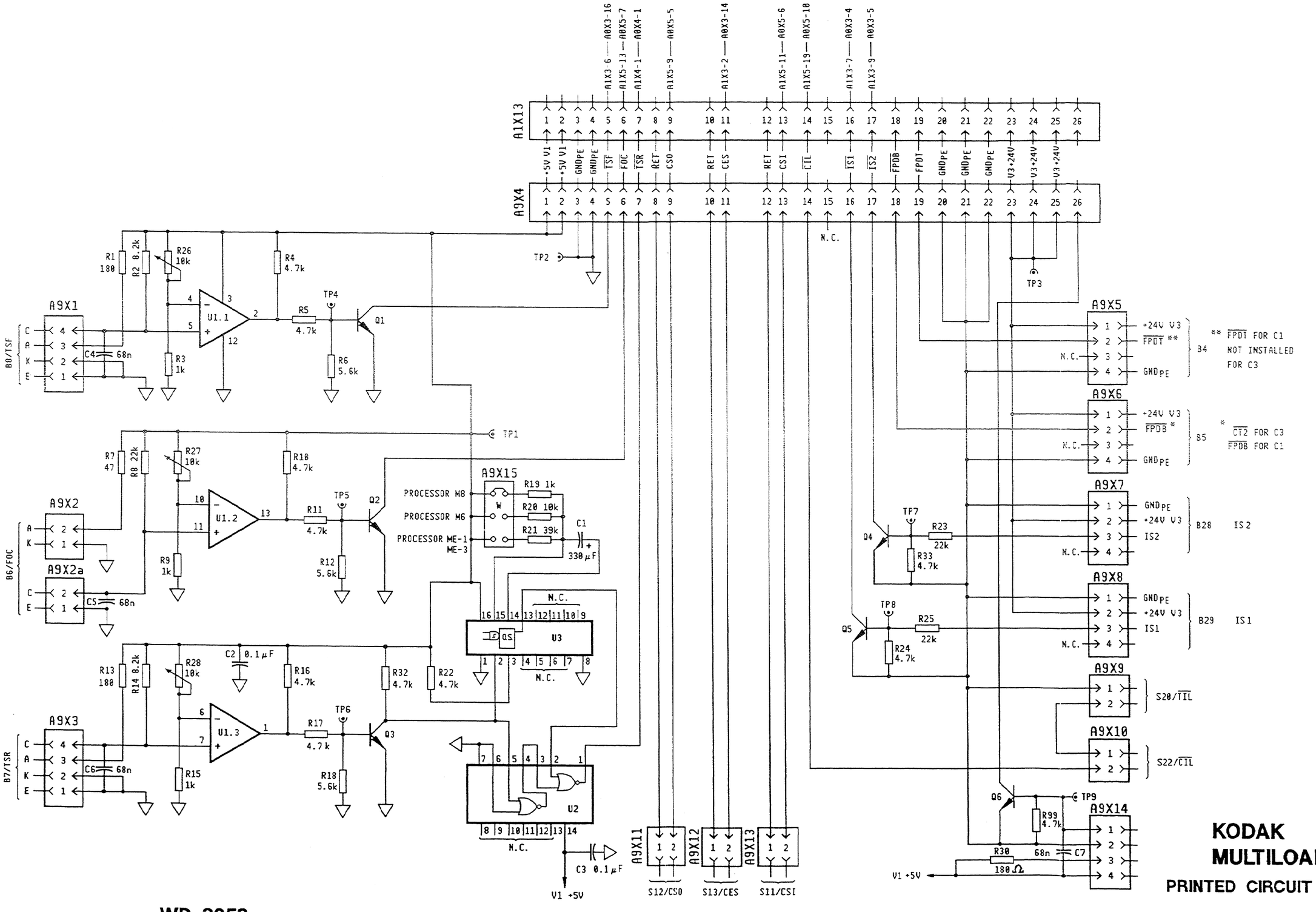
PRINTED CIRCUIT BOARD A7
from Serial Number 1023 and 5000

WD 3053



* NOTE: NOT INSTALLED FOR C1 CASSETTE

** NOTE: $\overline{\text{FPDB}}$ FOR C3 CASSETTE
$\overline{\text{CT2}}$ FOR C1 CASSETTE



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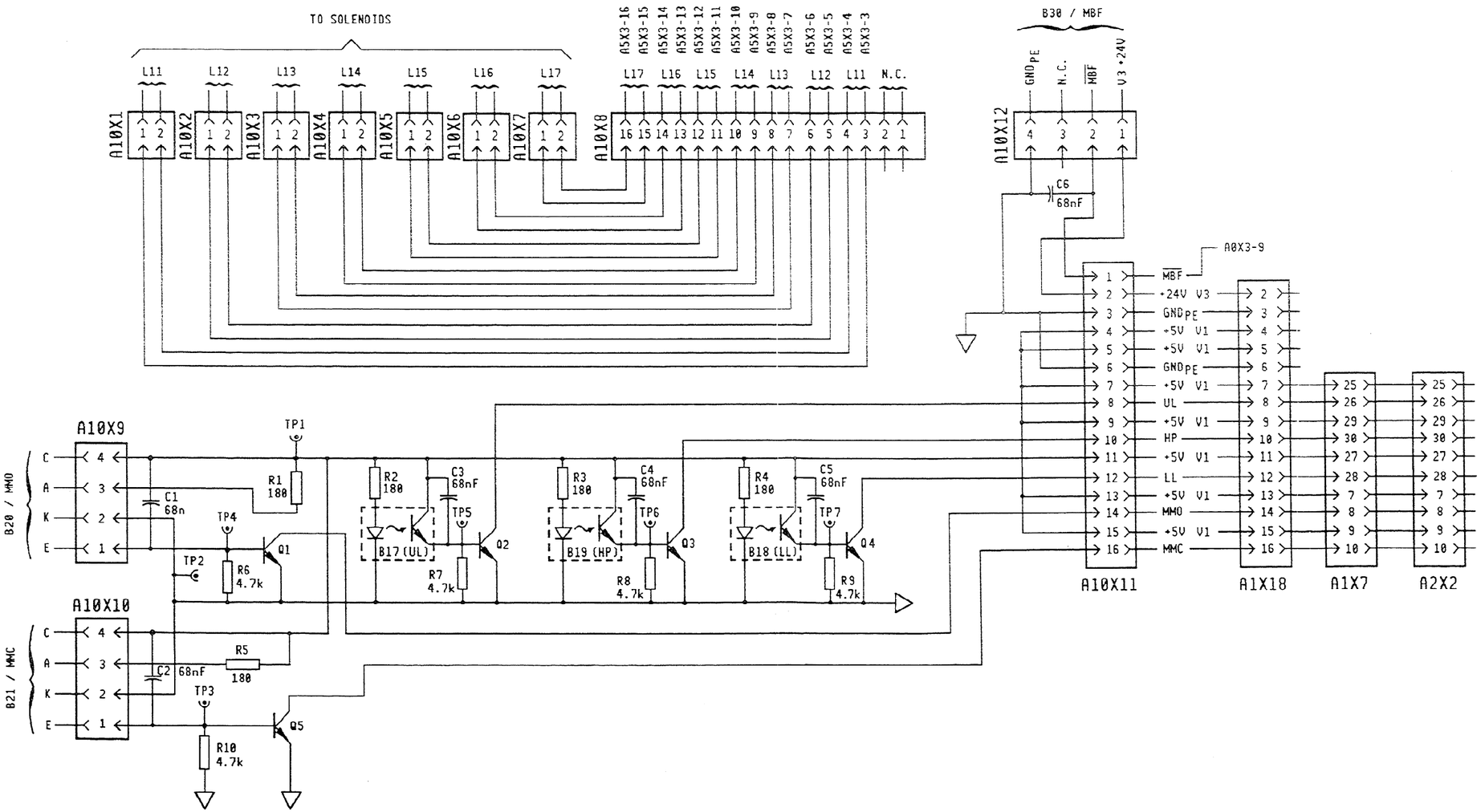
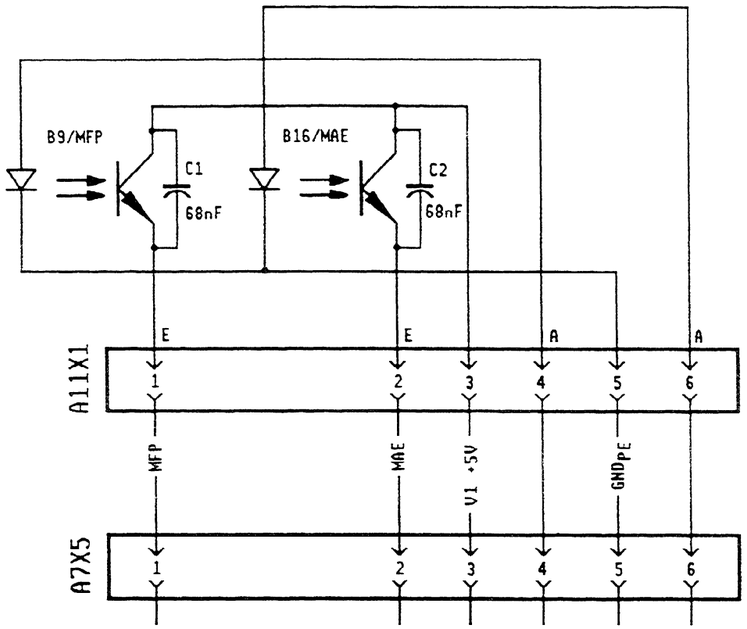
MULTILOADER 700
PRINTED CIRCUIT BOARD A9



KODAK MULTILOADER 700

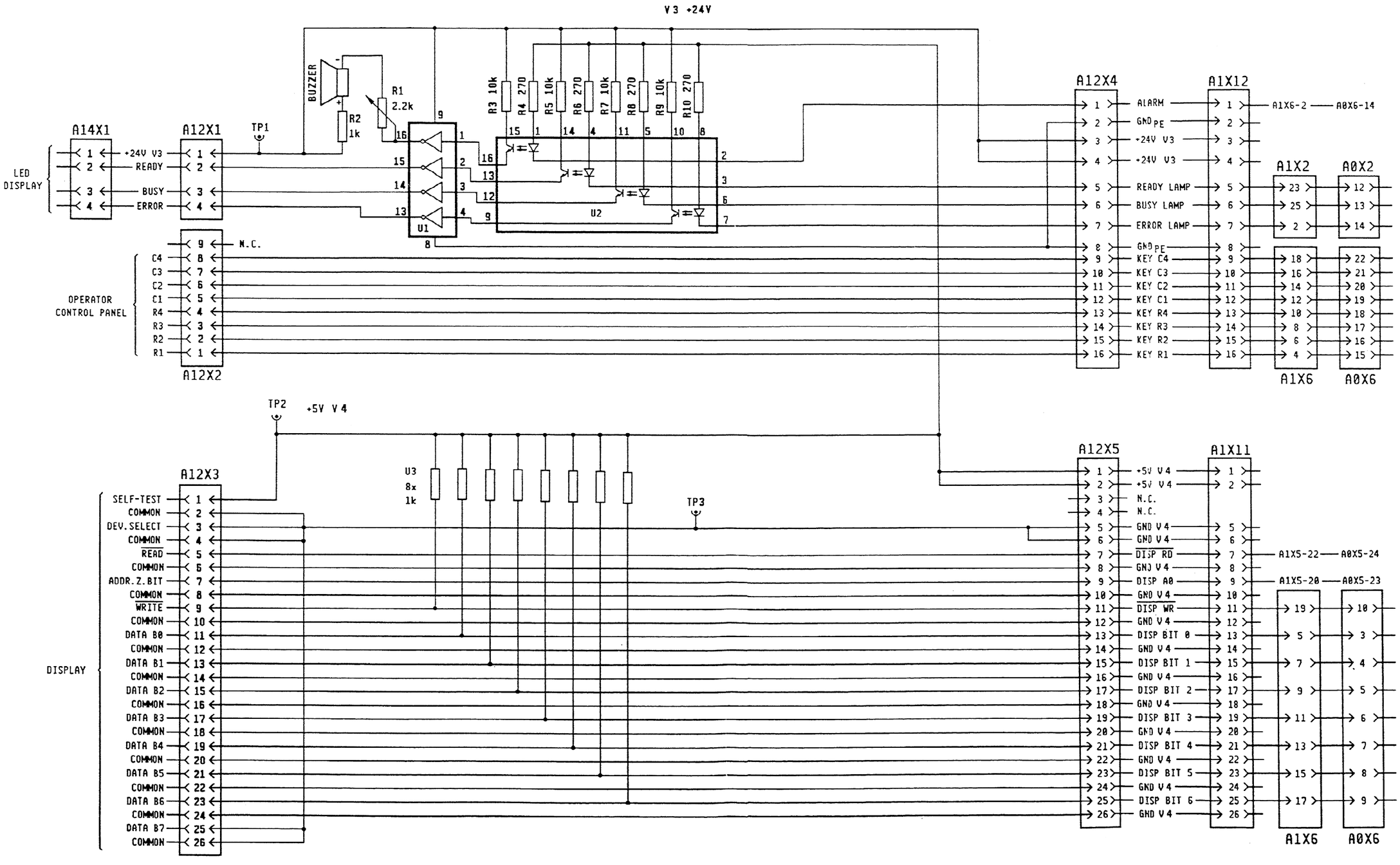
PRINTED CIRCUIT BOARD A10

WD 3053



KODAK MULTILOADER 700

PRINTED CIRCUIT BOARD A11

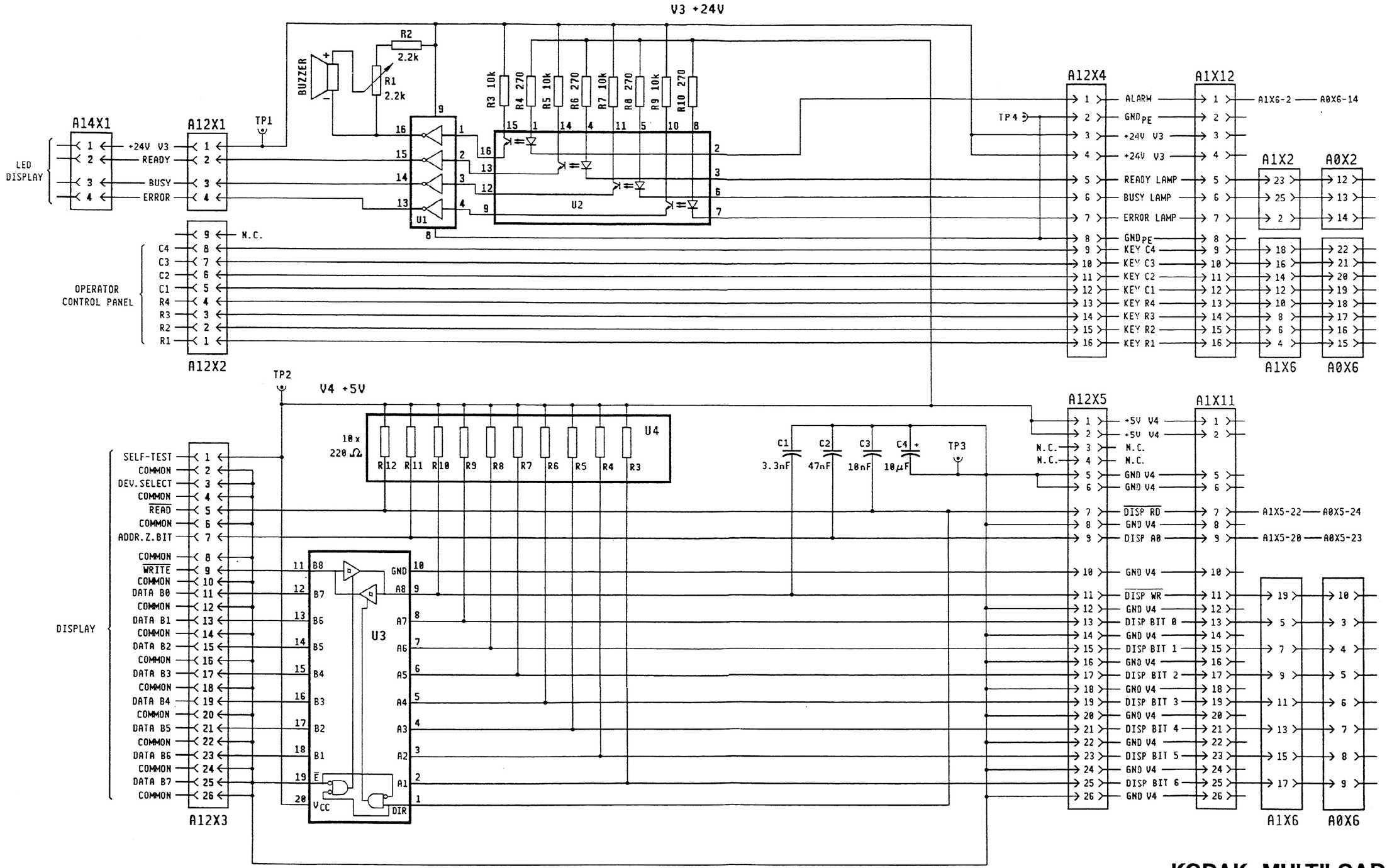


KODAK MULTILOADER 700

PRINTED CIRCUIT BOARD A12

up to Serial Number 1205 and 5076

WD 3053



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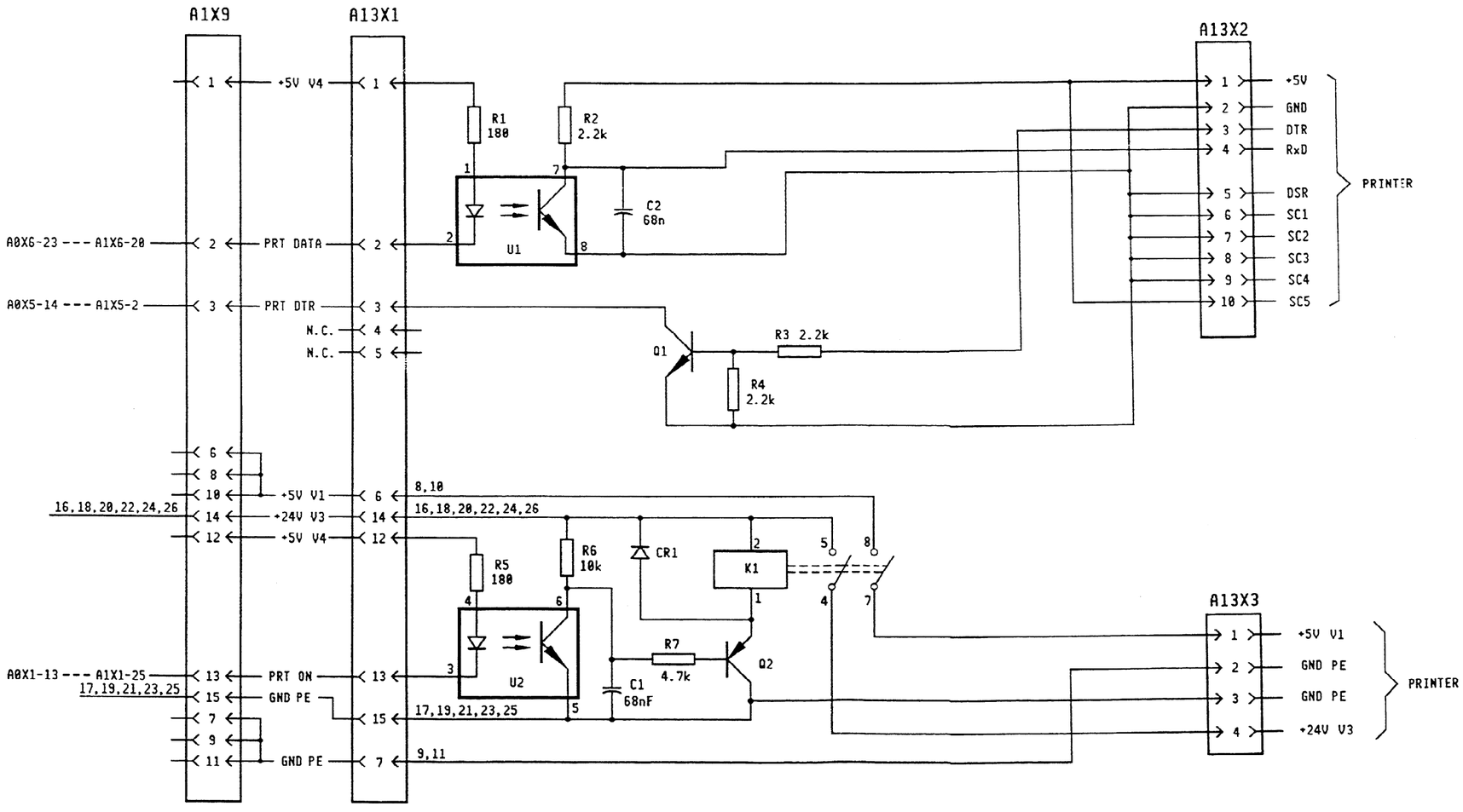
KODAK MULTILOADER 700

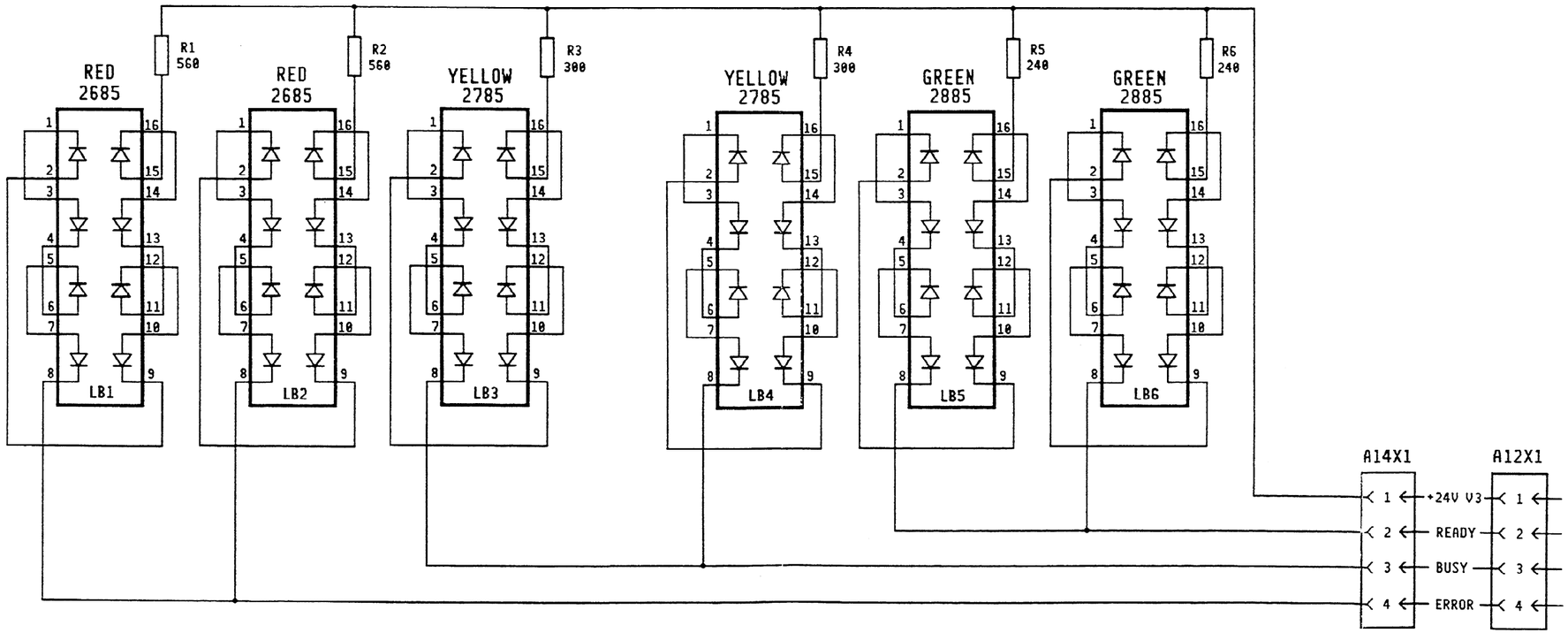
PRINTED CIRCUIT BOARD A12

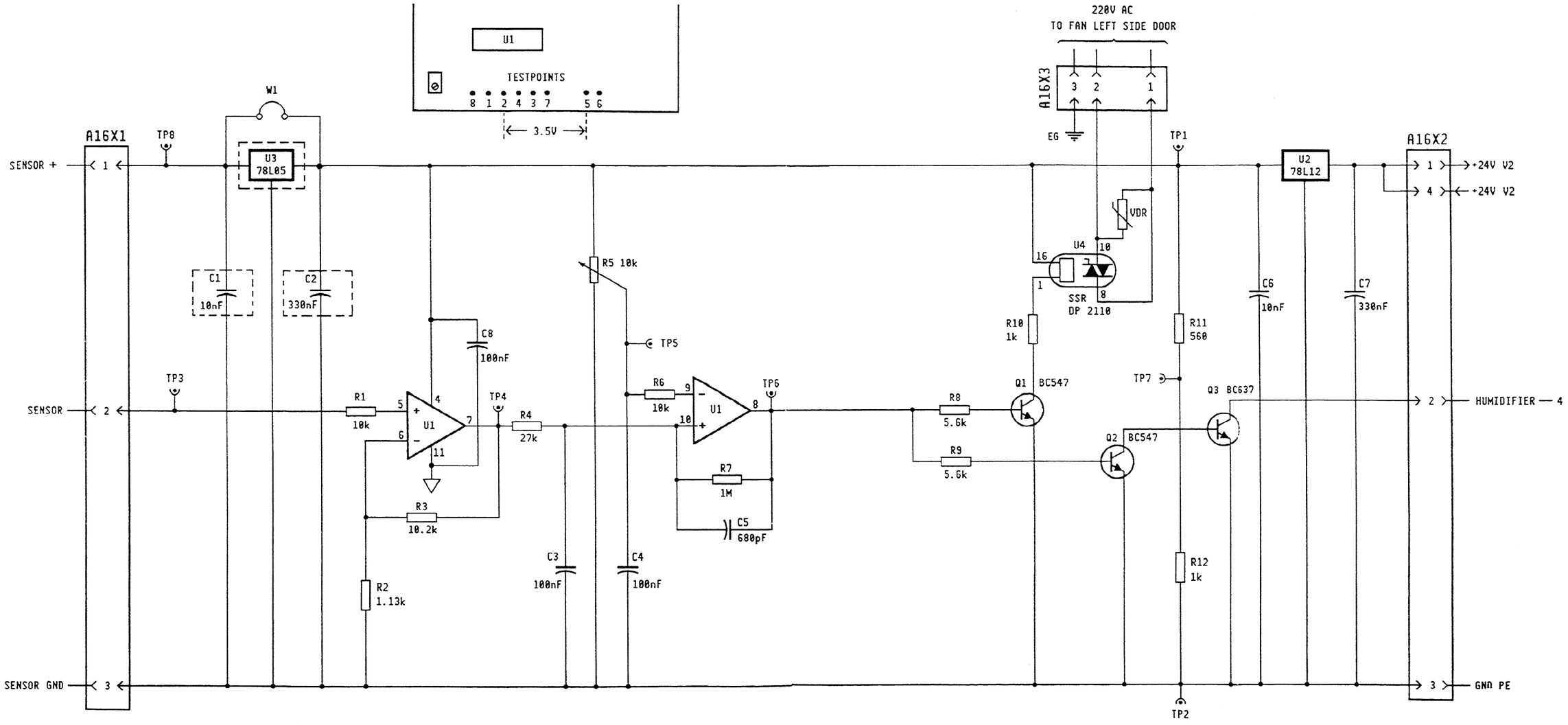
from Serial Number 1206 (50Hz)/5077 (60Hz)



KODAK MULTILOADER 700
CIRCUIT DIAGRAM PCB A13

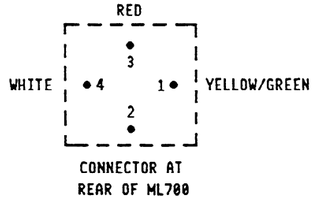
WD 3053


R1
560
R2
560
R3
300
R4
300
R5
240
R6
240
RED
2685
RED
2685
YELLOW
2785
YELLOW
2785
GREEN
2885
GREEN
2885
LB1
LB2
LB3
LB4
LB5
LB6
A14X1
A12X1
+24V V3
READY
BUSY
ERROR



NOTE:

THESE PARTS ONLY WHEN 5V SENSOR IS USED. IN THIS CASE JUMPER W1 IS NOT INSTALLED.

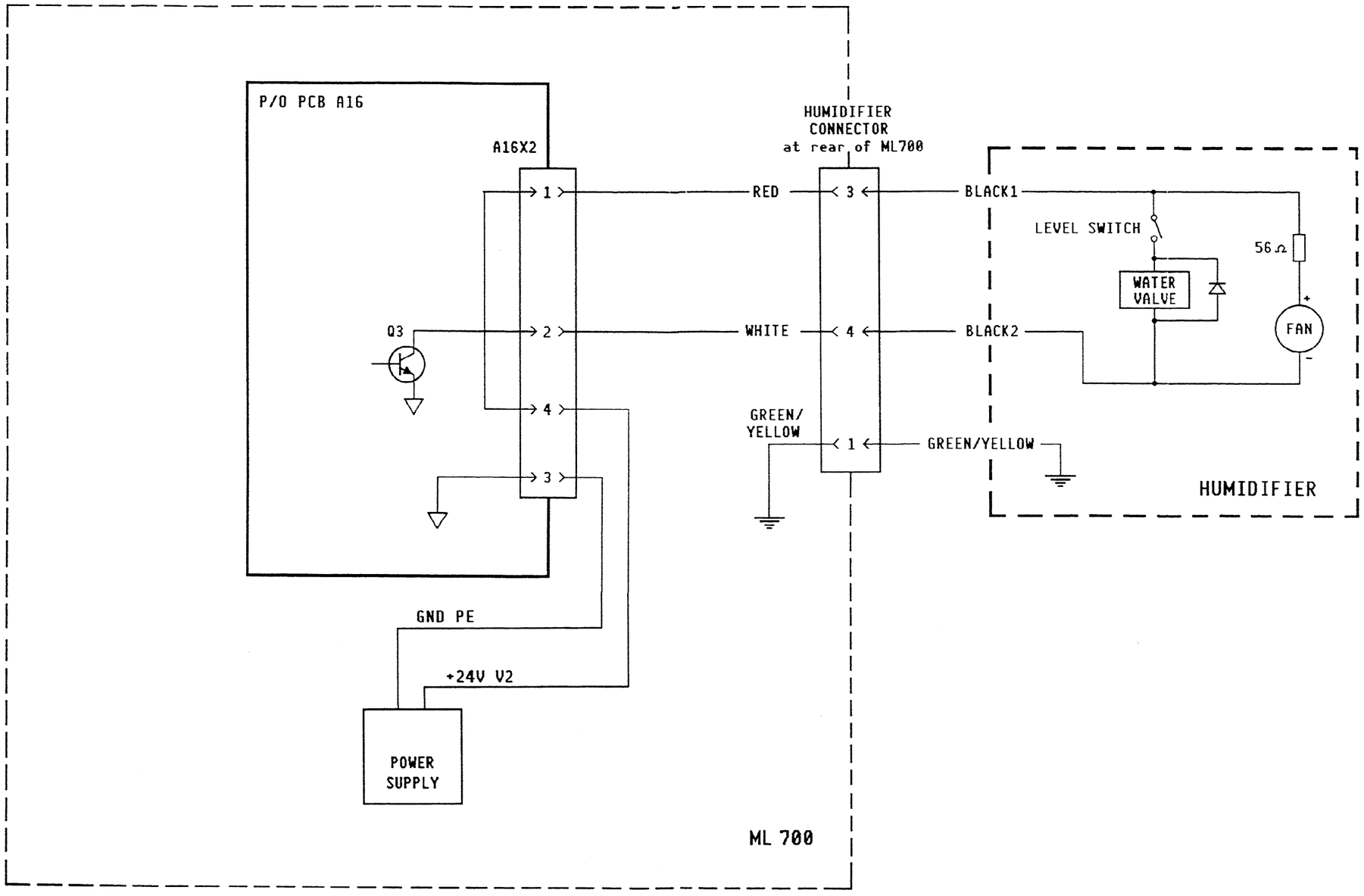


CONNECTOR AT REAR OF ML700

KODAK MULTILOADER 700

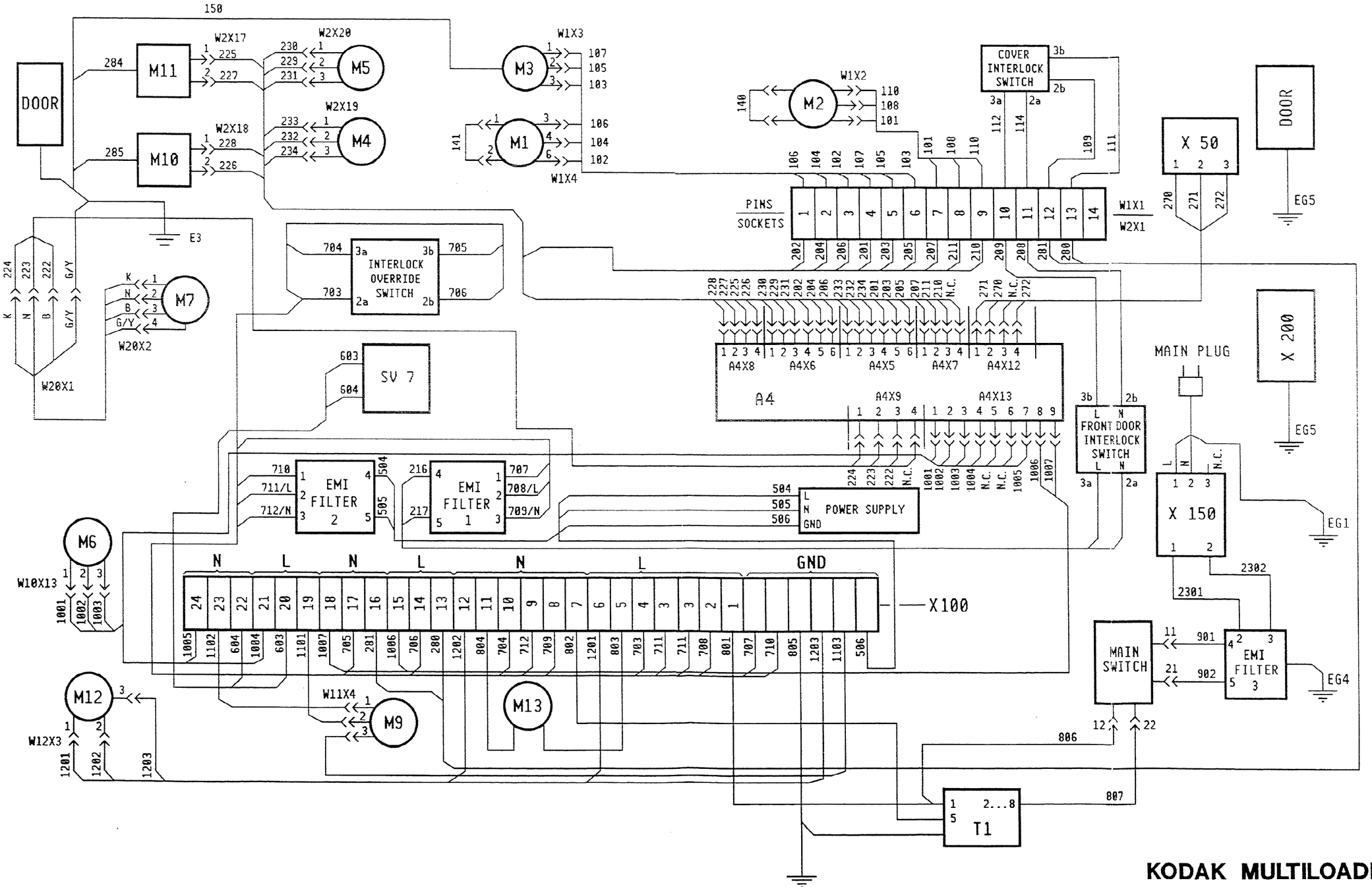
PRINTED CIRCUIT BOARD A16
SHEET 1 OF 2

WD 3053



KODAK MULTILOADER 700
PRINTED CIRCUIT BOARD A16
SHEET 2 OF 2
HUMIDIFIER INTERCONNECTION

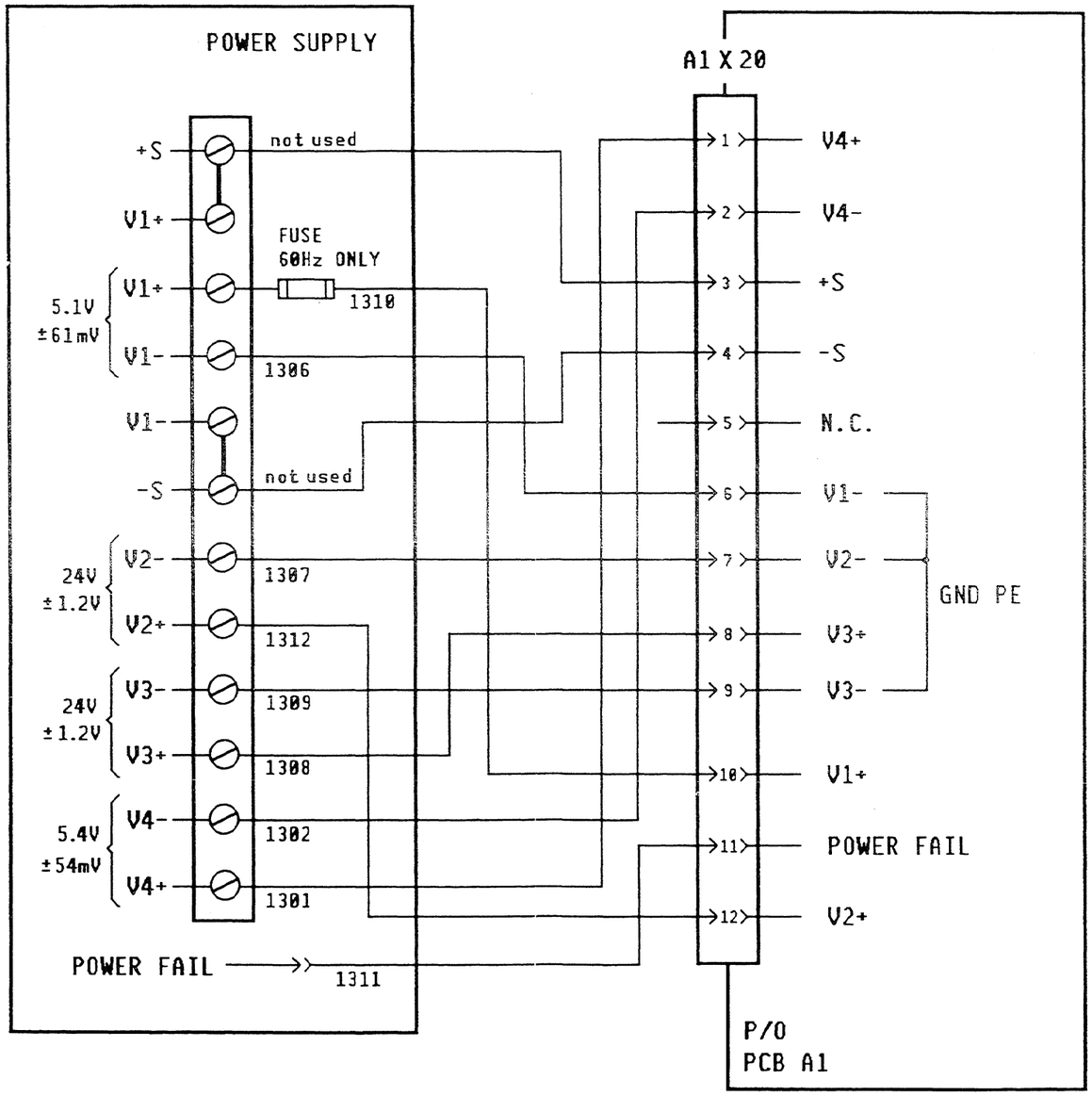
WD 3053



KODAK MULTILOADER 700

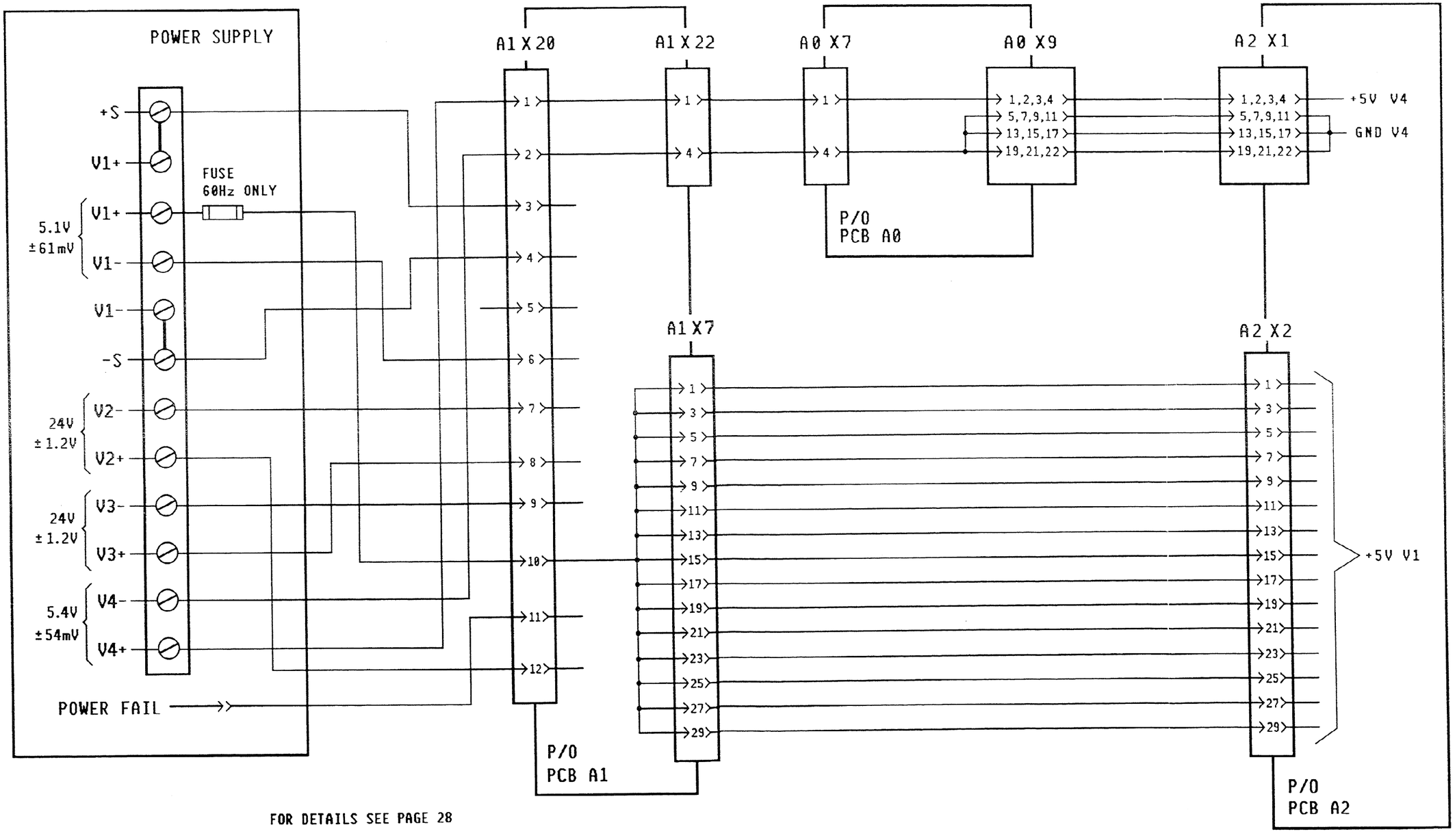
TWO LINE WIRING DIAGRAM

WD 3053



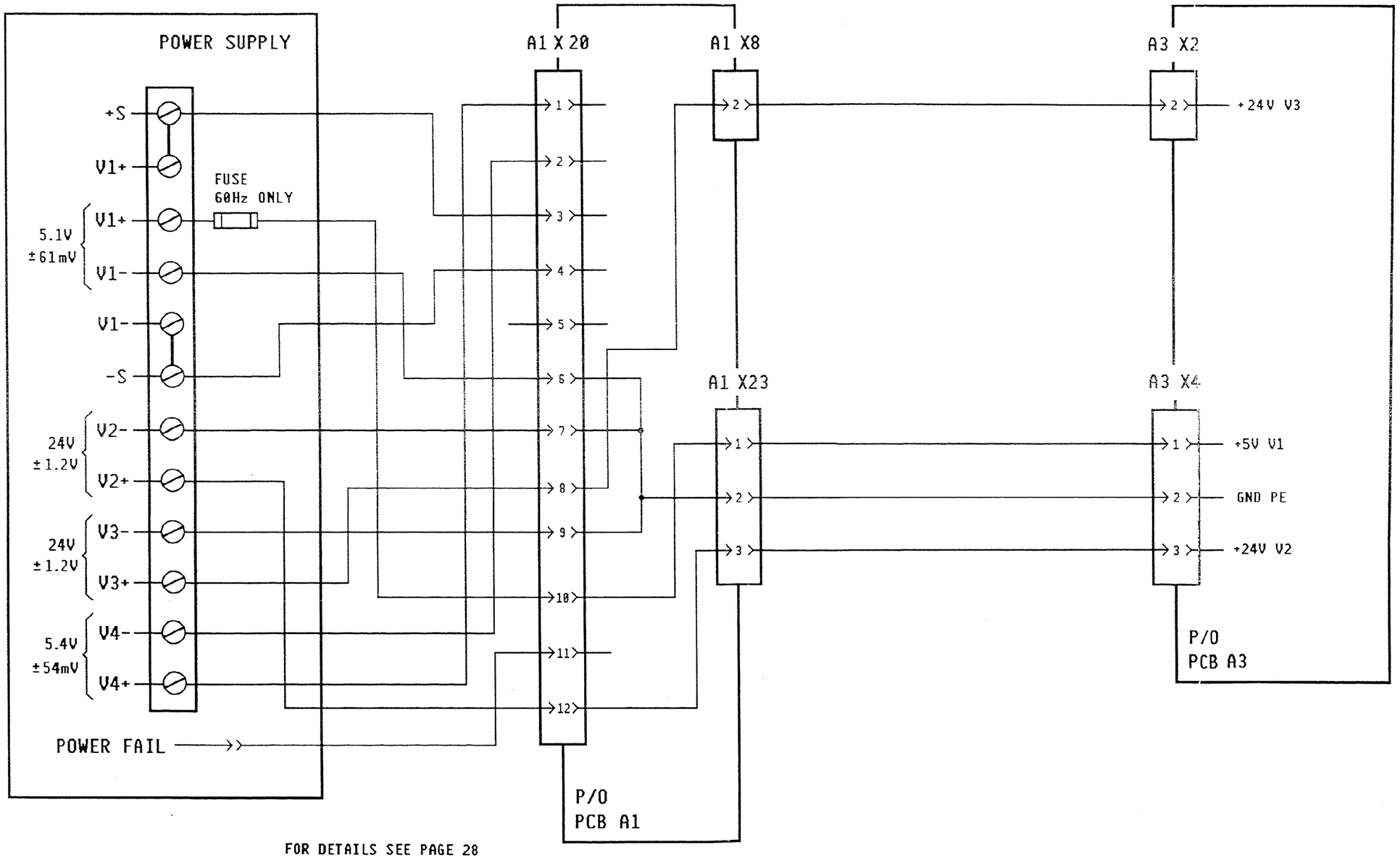
KODAK MULTILOADER 700
DC POWER DISTRIBUTION
POWER SUPPLY TO PCB A1

WD 3053



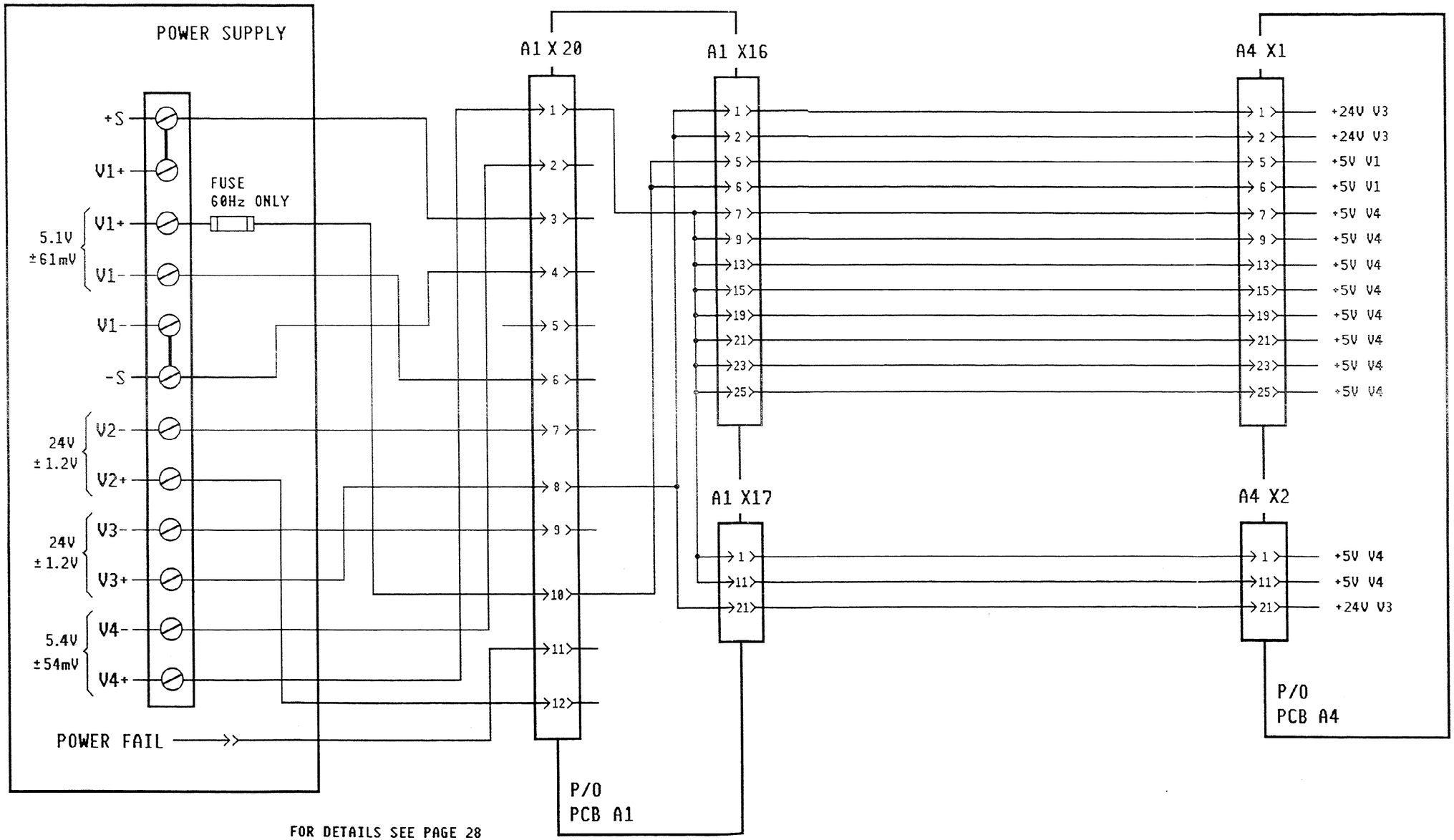
FOR DETAILS SEE PAGE 28

KODAK MULTILOADER 700
DC POWER DISTRIBUTION
POWER SUPPLY TO
PCB A0, PCB A1, PCB A2



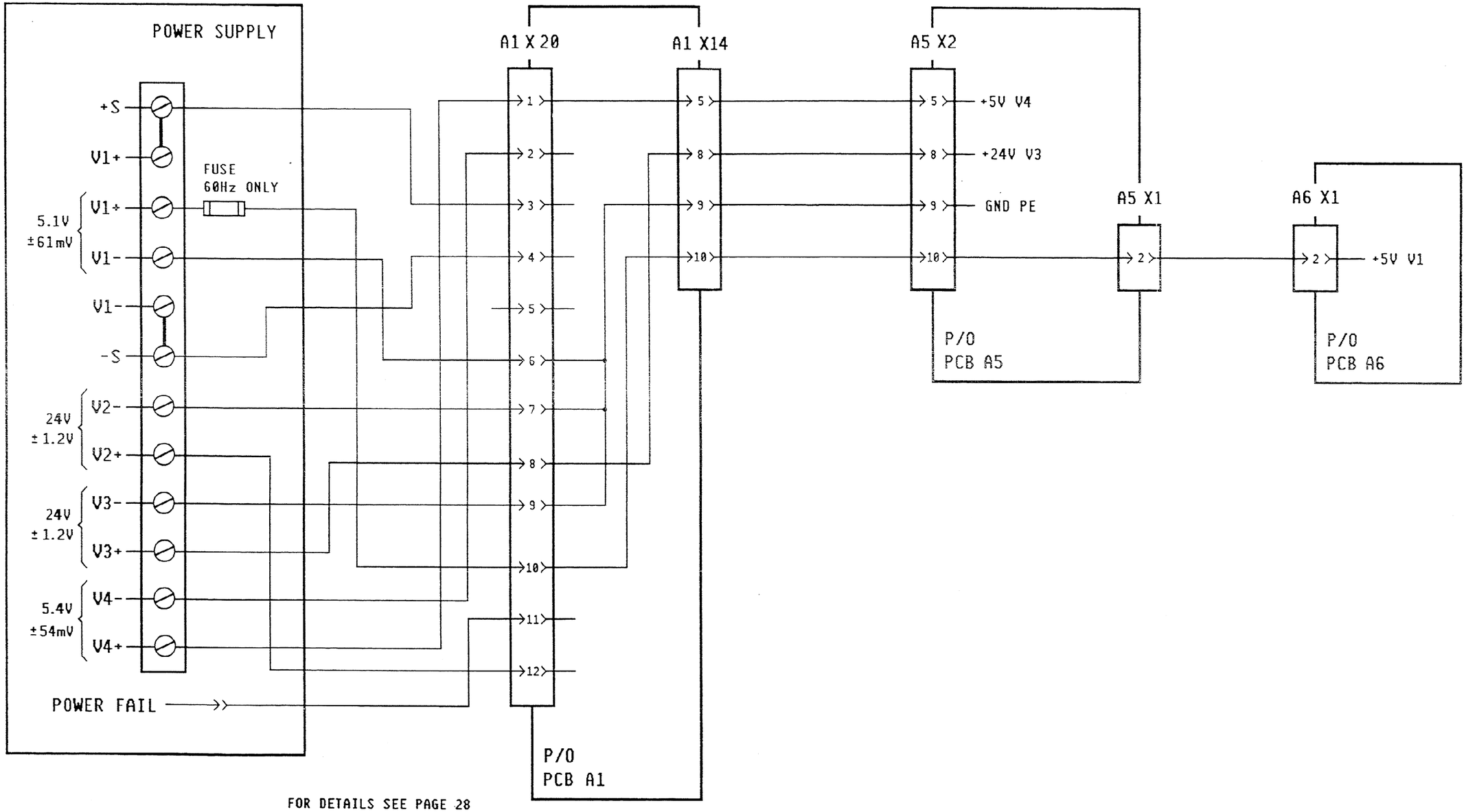
FOR DETAILS SEE PAGE 28

KODAK MULTILOADER 700
DC POWER DISTRIBUTION
POWER SUPPLY TO PCB A3



FOR DETAILS SEE PAGE 28

KODAK MULTILOADER 700
DC POWER DISTRIBUTION
POWER SUPPLY TO PCB A4



FOR DETAILS SEE PAGE 28

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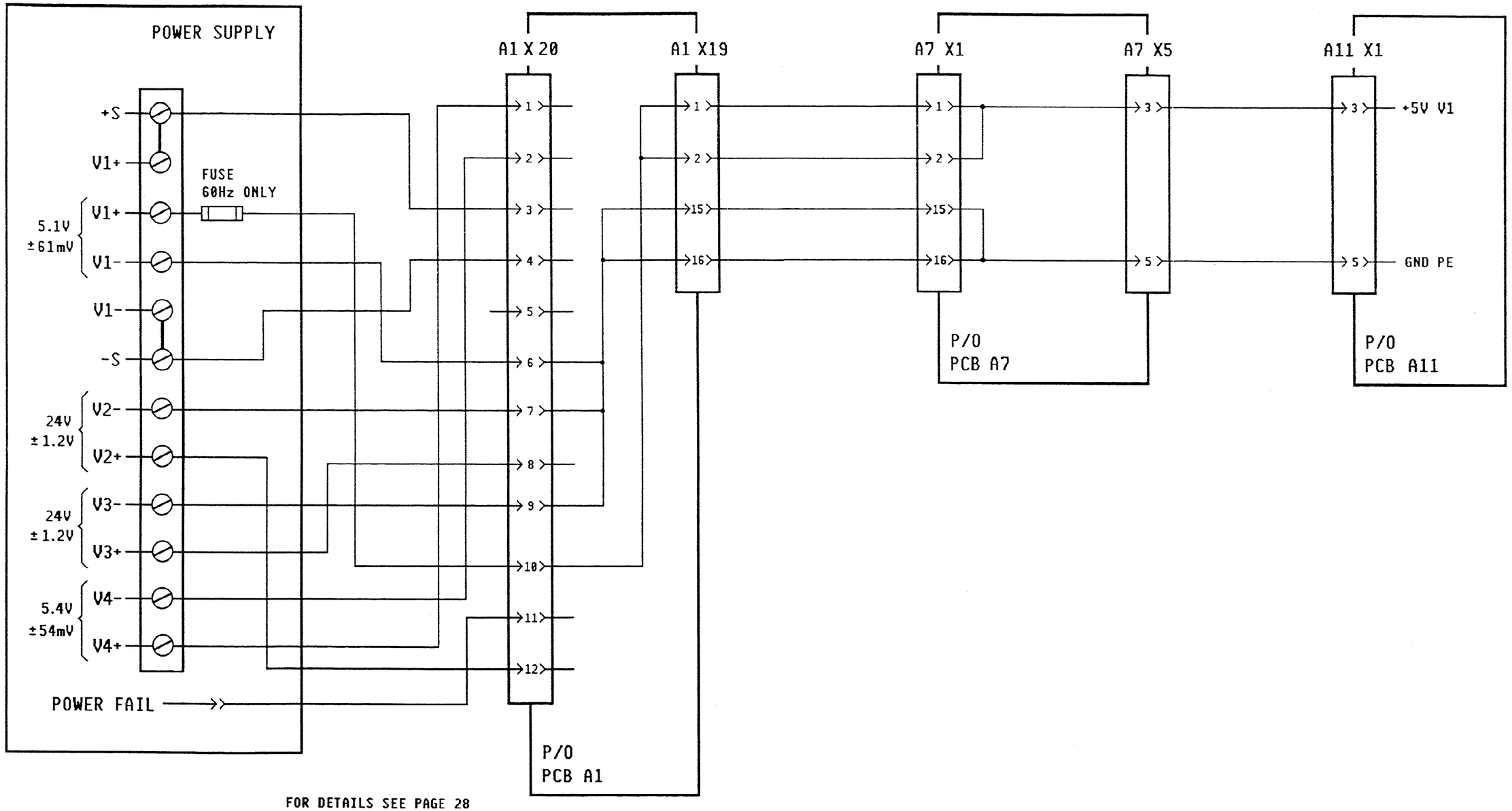
KODAK MULTILOADER 700

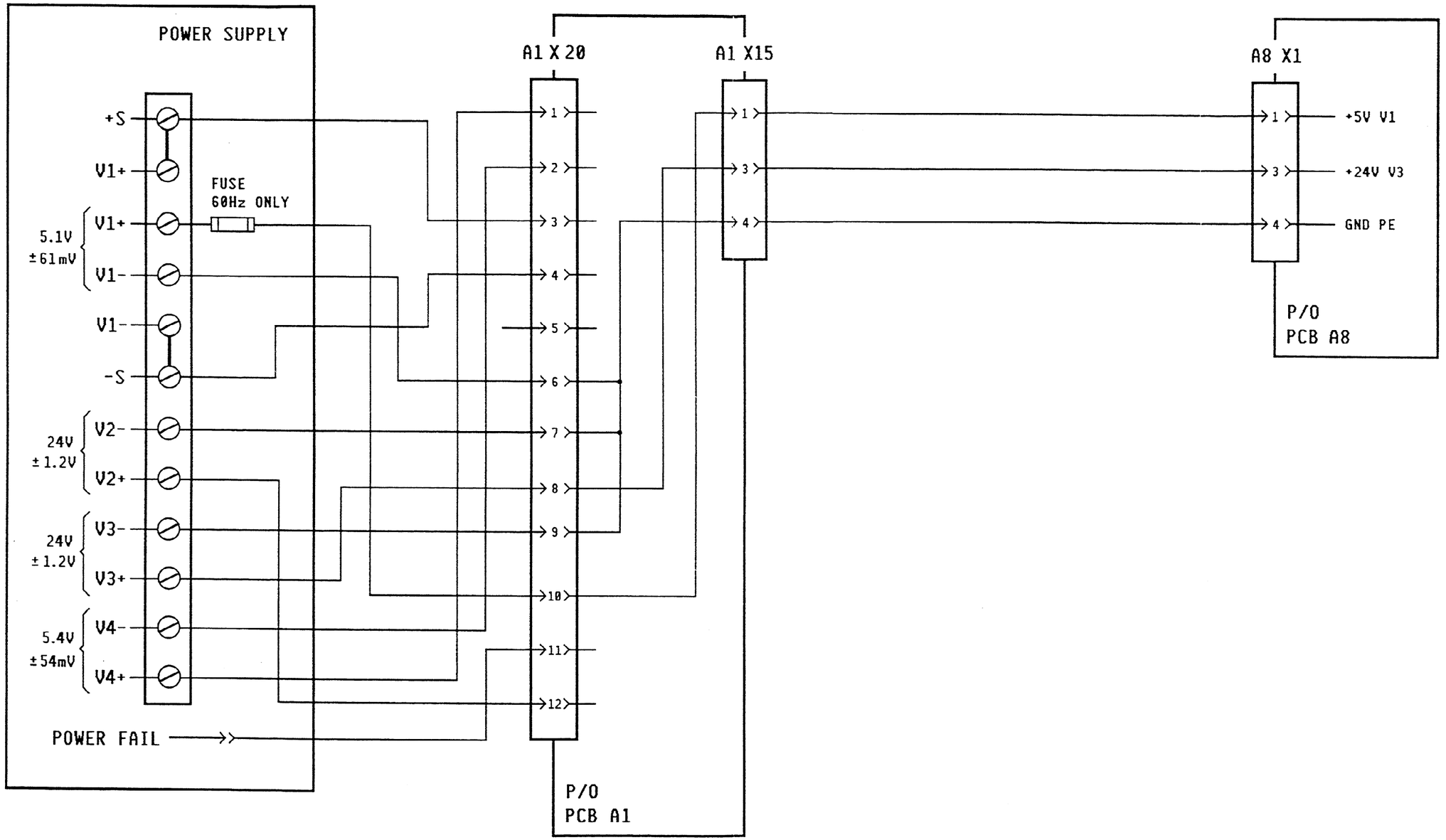
DC POWER DISTRIBUTION
POWER SUPPLY TO PCB A5 & PCB A6



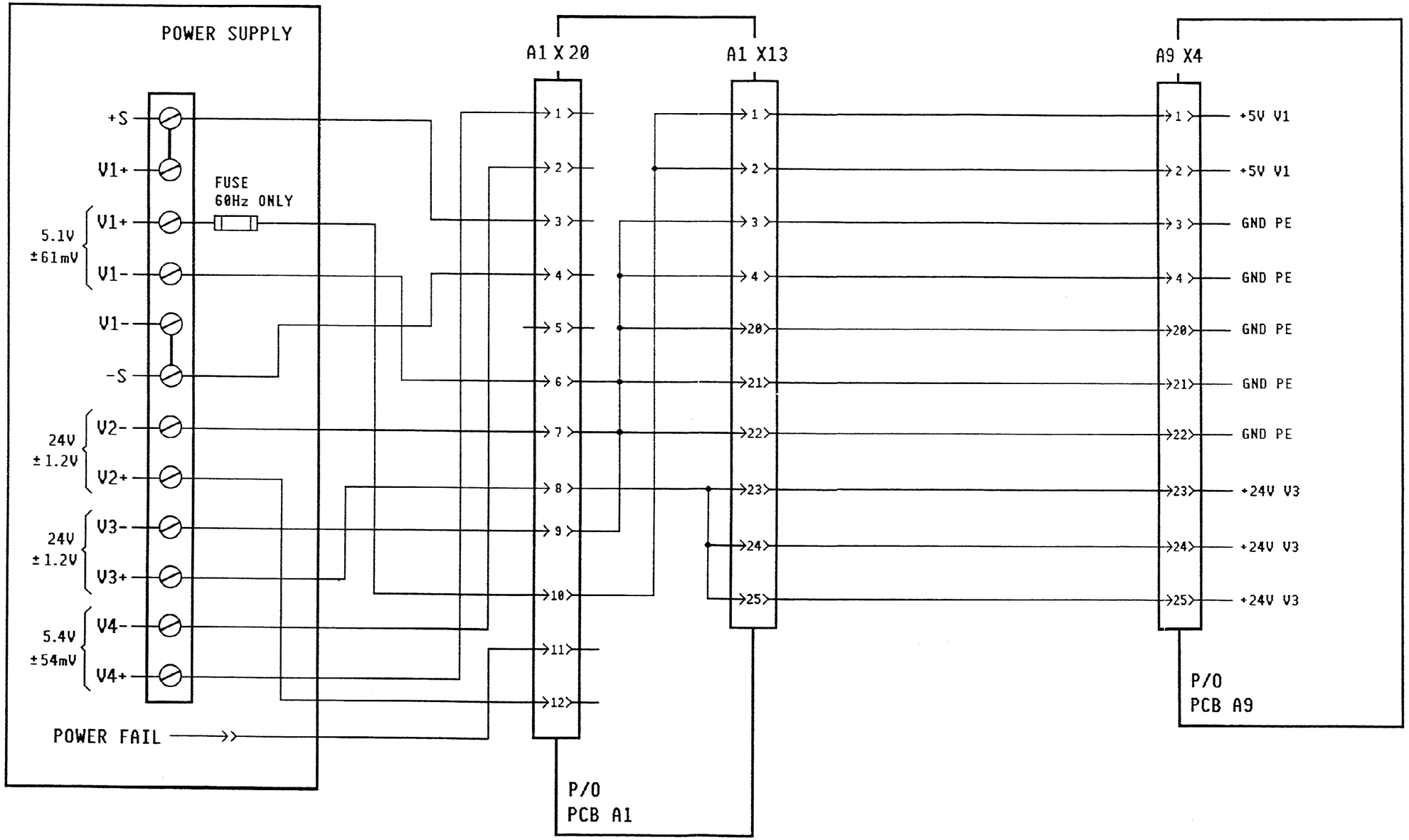
FOR DETAILS SEE PAGE 28

KODAK MULTILOADER 700

DC POWER DISTRIBUTION
POWER SUPPLY TO PCB A7 & PCB A11

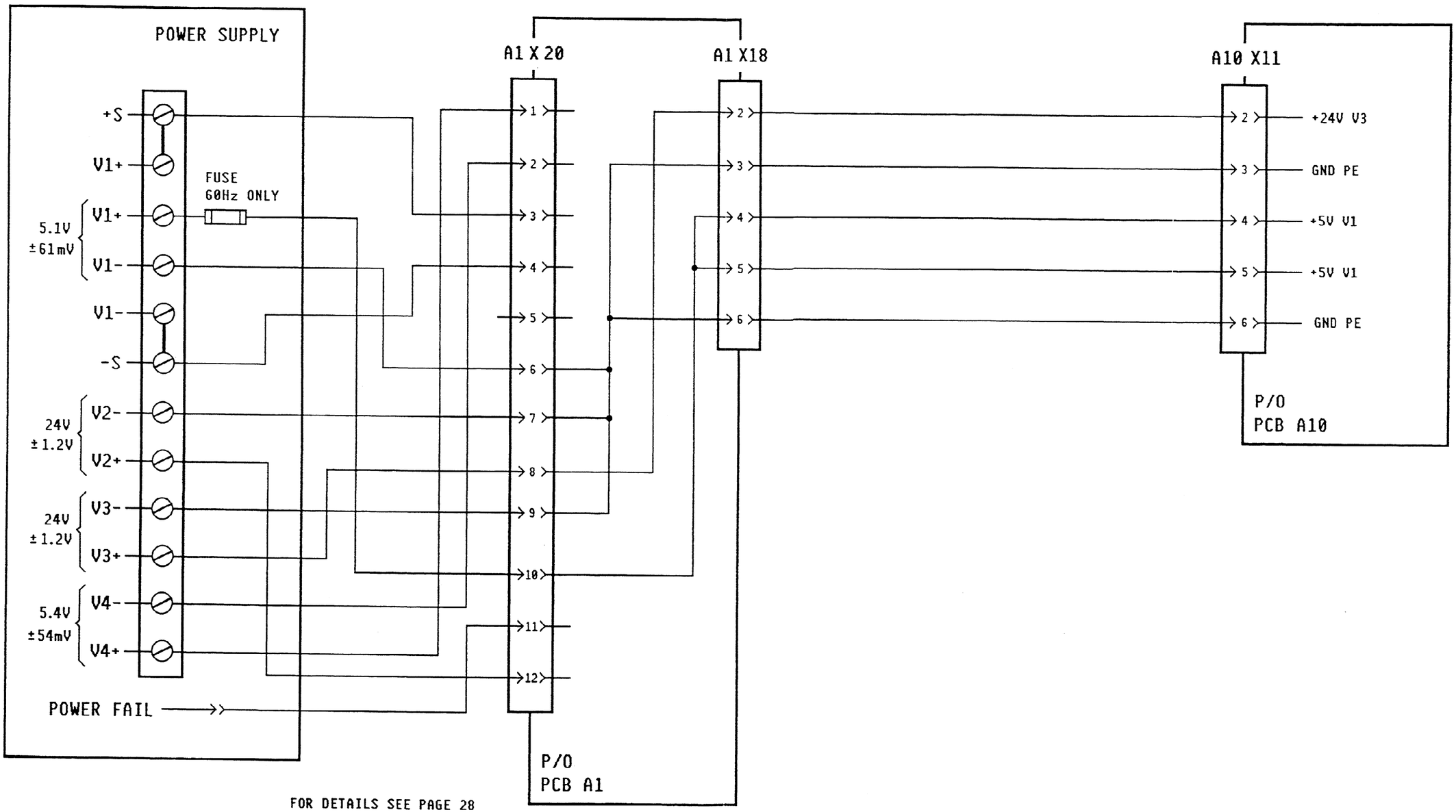


FOR DETAILS SEE PAGE 28



FOR DETAILS SEE PAGE 28

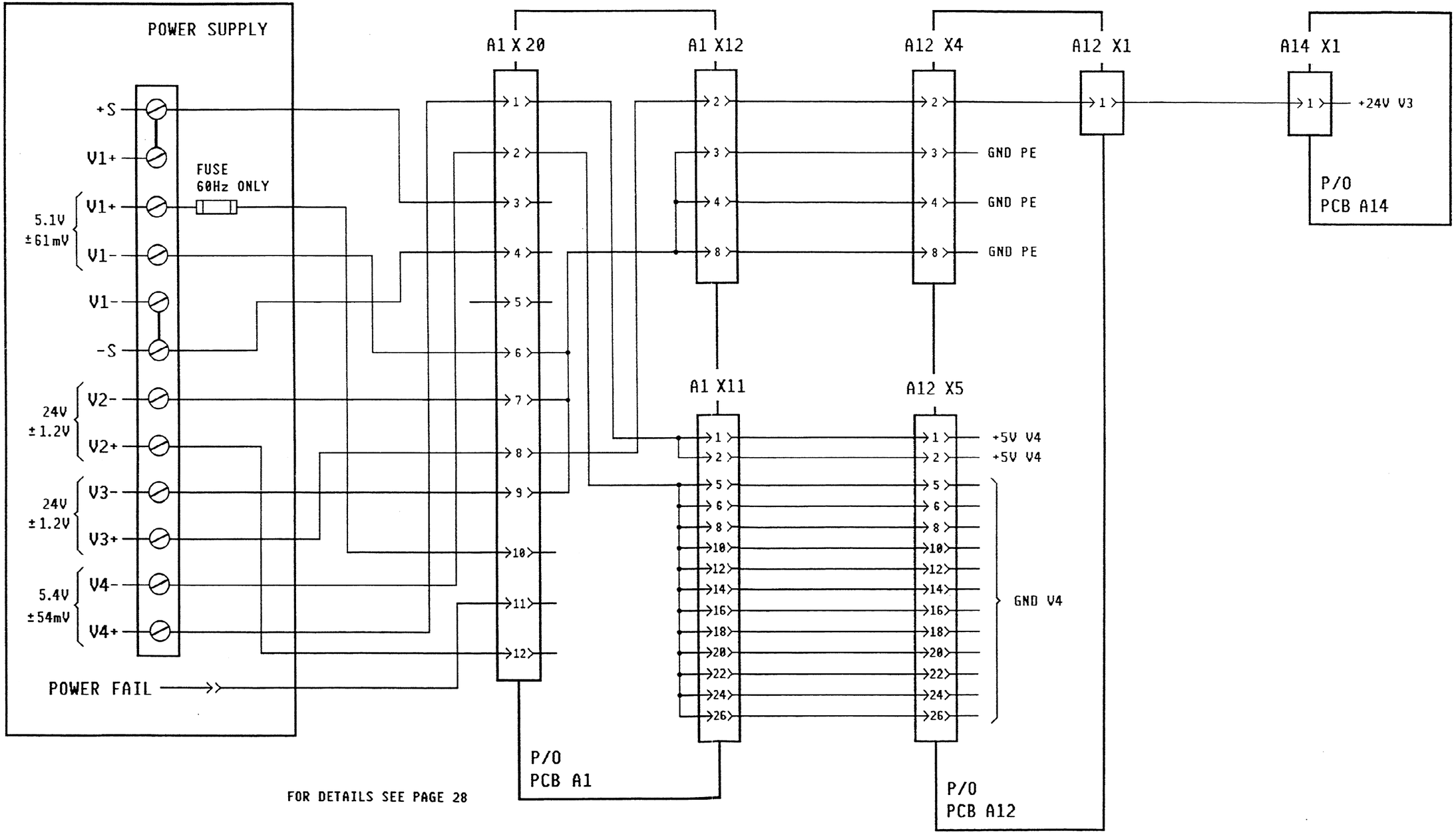
KODAK MULTILOADER 700
DC POWER DISTRIBUTION
POWER SUPPLY TO PCB A9



FOR DETAILS SEE PAGE 28

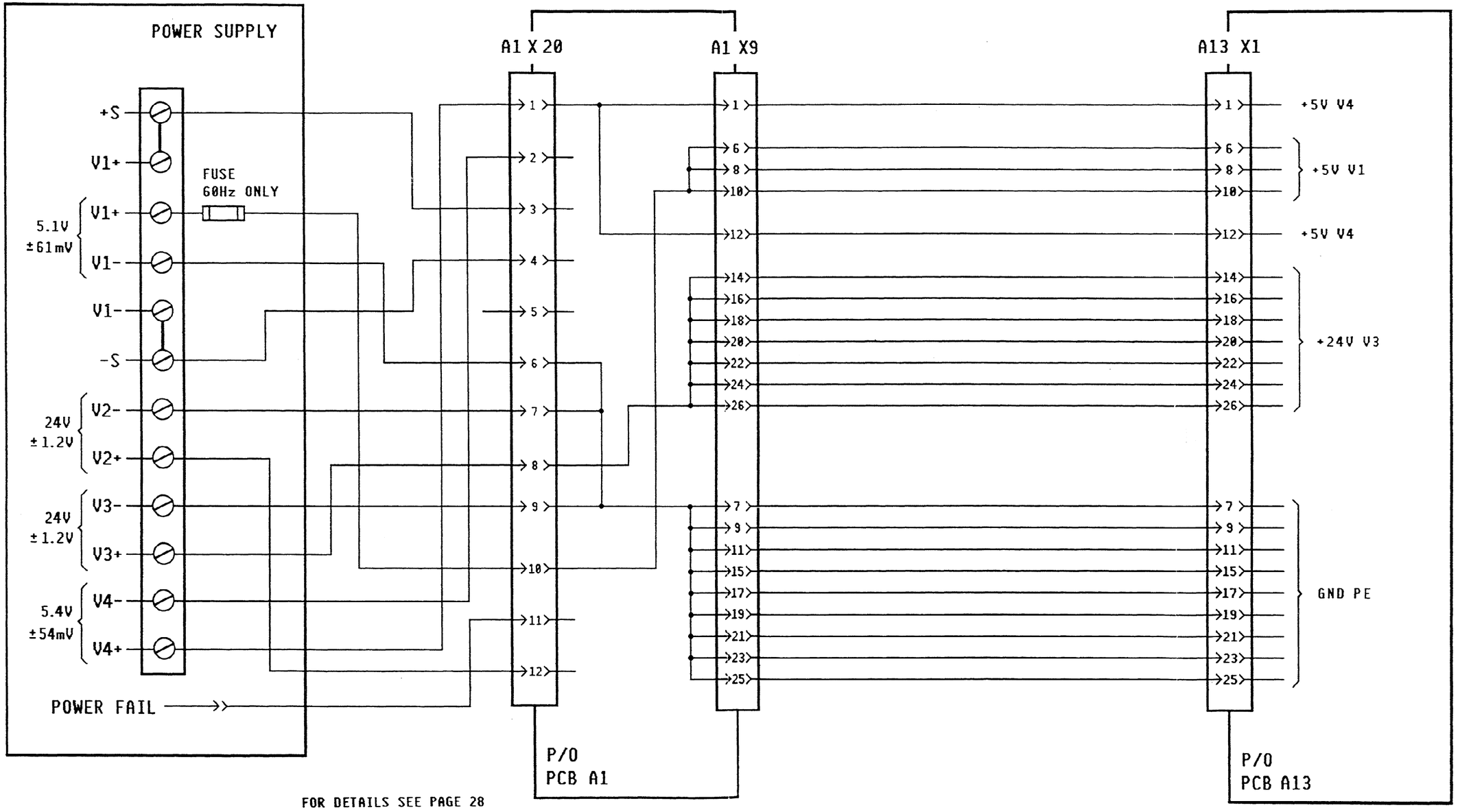
WD 3053

KODAK MULTILOADER 700
DC POWER DISTRIBUTION
POWER SUPPLY TO PCB A10



FOR DETAILS SEE PAGE 28

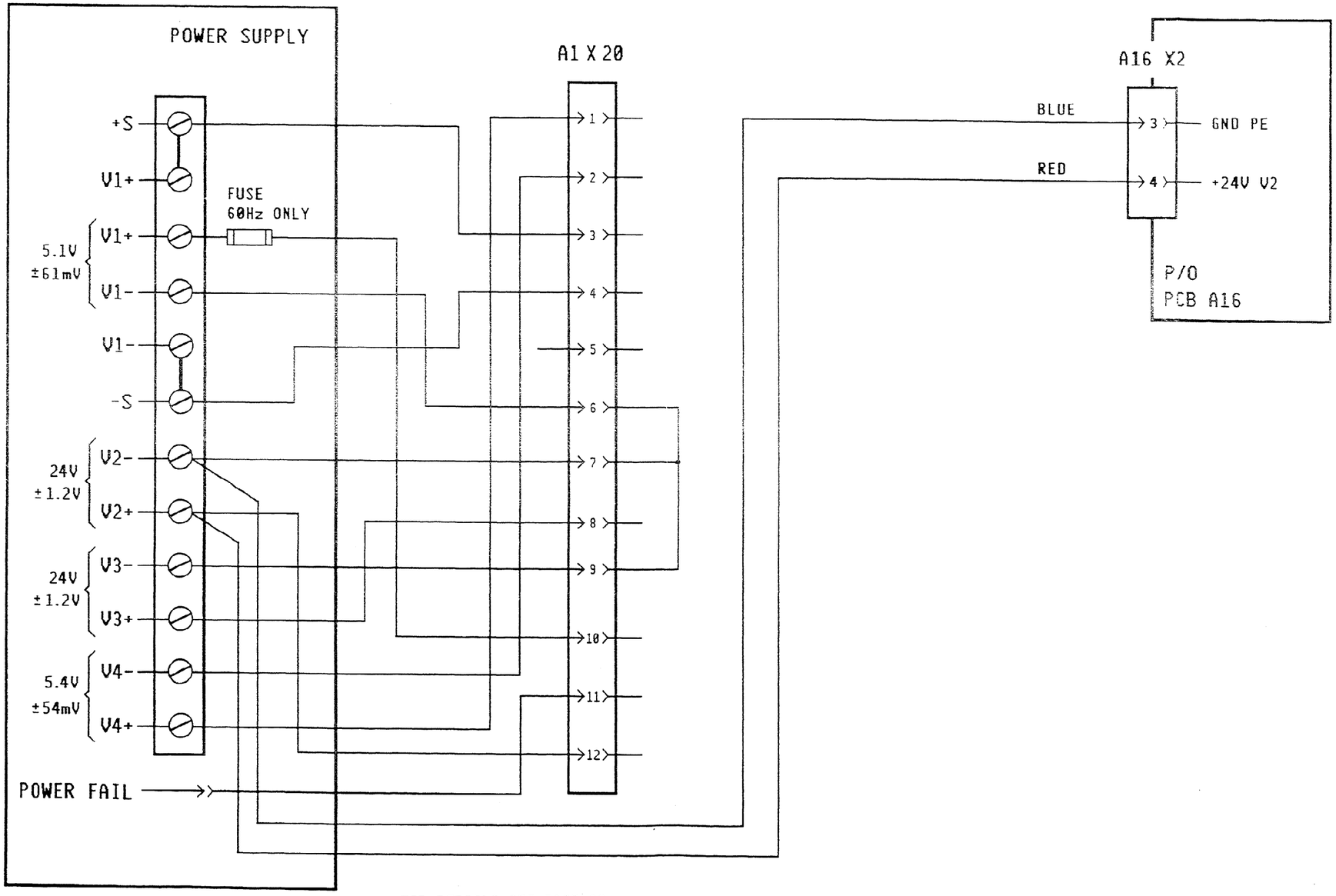
KODAK MULTILOADER 700
DC POWER DISTRIBUTION
POWER SUPPLY TO PCB A12 & PCB A14



FOR DETAILS SEE PAGE 28

KODAK MULTILOADER 700
DC POWER DISTRIBUTION
POWER SUPPLY TO PCB A13

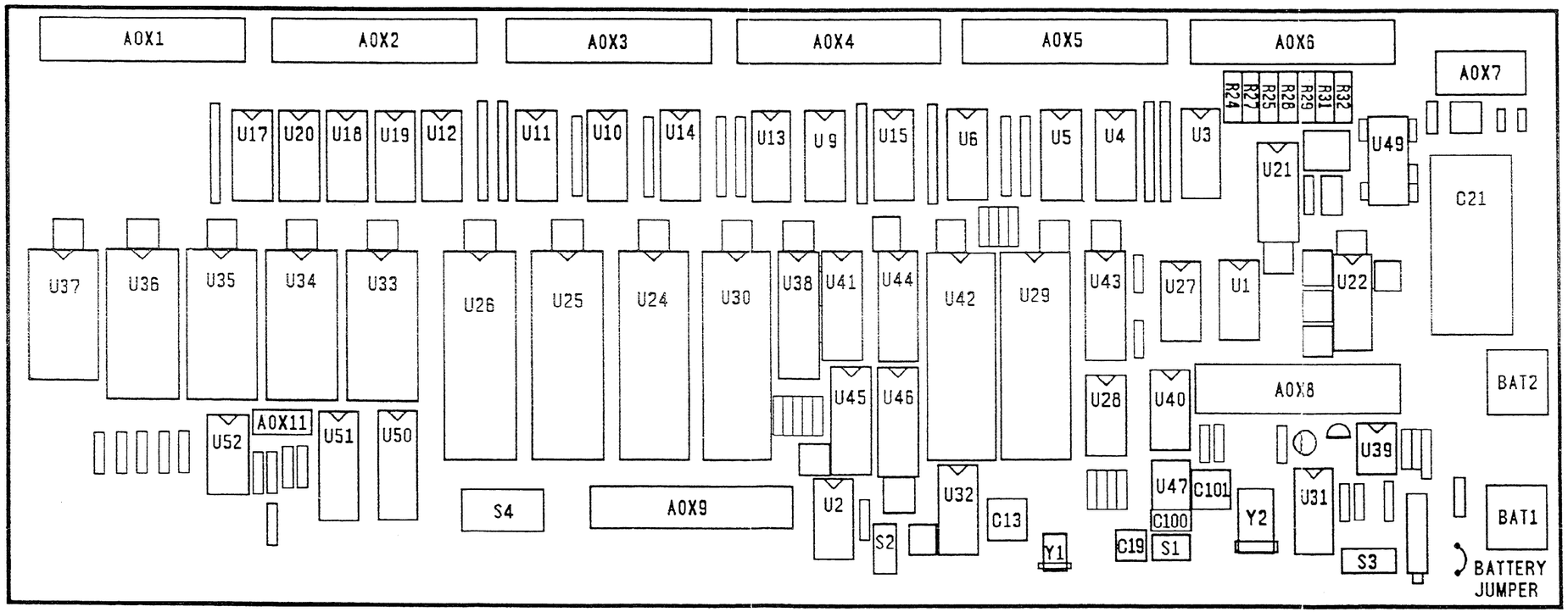
WD 3053



FOR DETAILS SEE PAGE 28

KODAK MULTILOADER 700
DC POWER DISTRIBUTION
POWER SUPPLY TO PCB A16

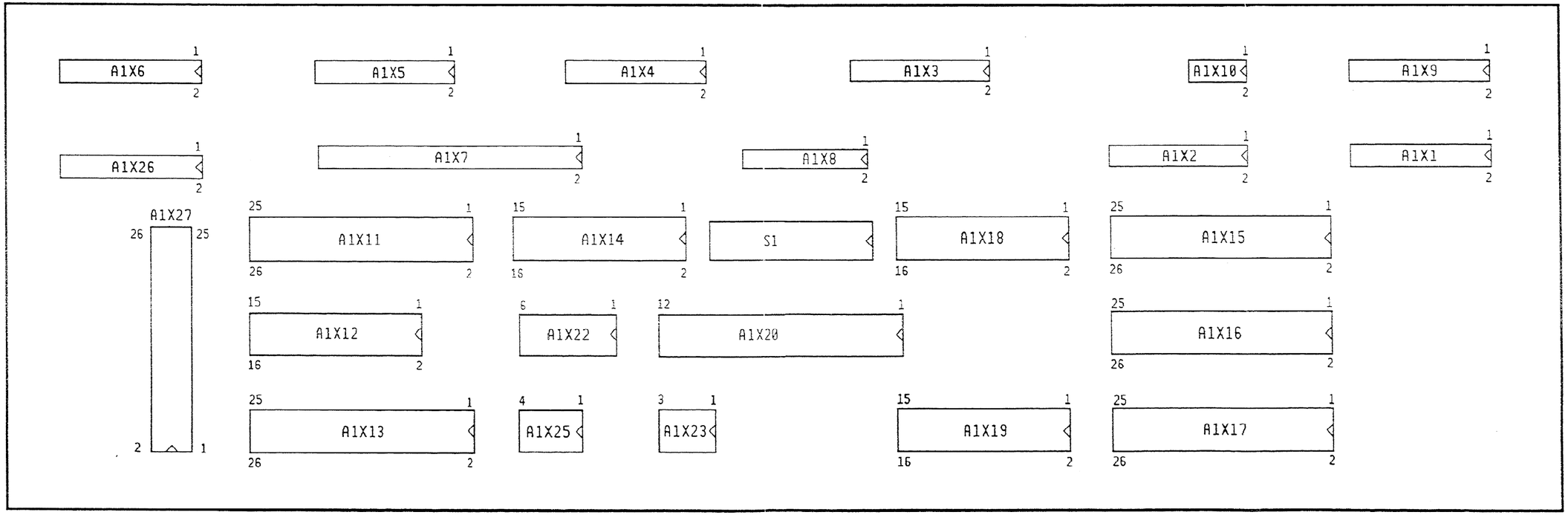
WD 3053



KODAK MULTILOADER 700
COMPONENT LOCATION PCB A0

WD 3053

TOP

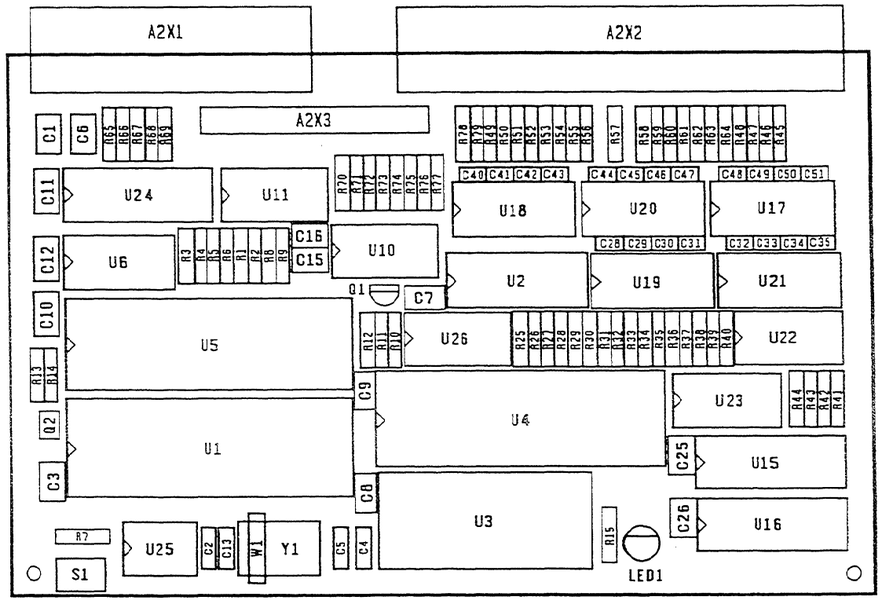


REAR VIEW

BOTTOM

KODAK MULTILOADER 700
PCB A1 CONNECTOR LAYOUT

WD 3053


A2X1
A2X2
A2X3
C1
C6
C11
U24
U11
C12
U6
C16
C15
U10
C10
U5
C13
C14
Q1
C7
U2
U19
U21
U26
U22
C9
U4
U23
U1
Q2
C3
C8
U3
U15
C25
U16
C26
R7
S1
U25
C2
C13
W1
Y1
C5
C4
R15
LED1
U18
U20
U17
R70
R71
R72
R73
R74
R75
R76
R77
R78
R79
R80
R81
R82
R83
R84
R85
R86
R87
R88
R89
R90
R91
R92
R93
R94
R95
R96
R97
R98
R99
R100
R101
R102
R103
R104
R105
R106
R107
R108
R109
R110
R111
R112
R113
R114
R115
R116
R117
R118
R119
R120
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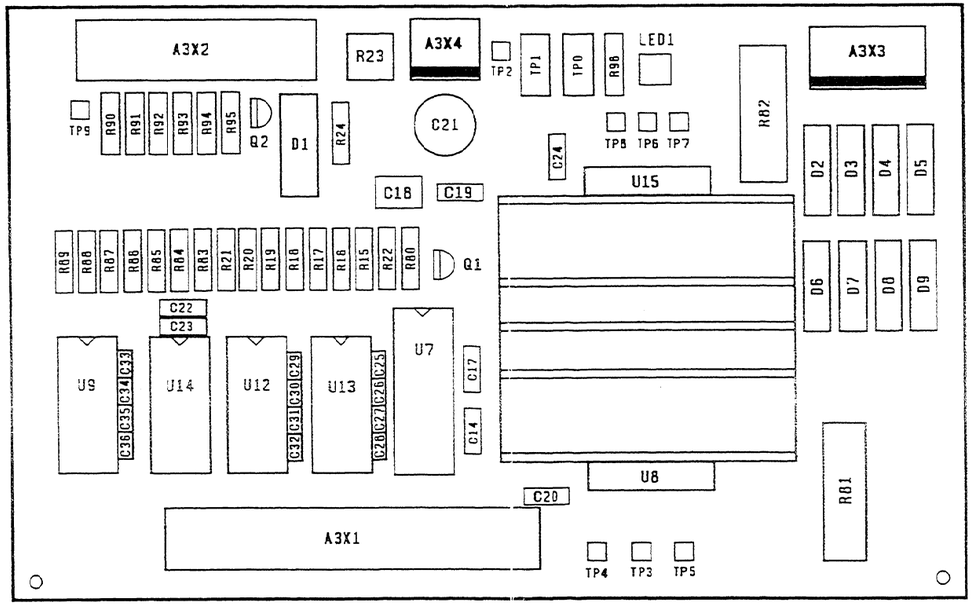
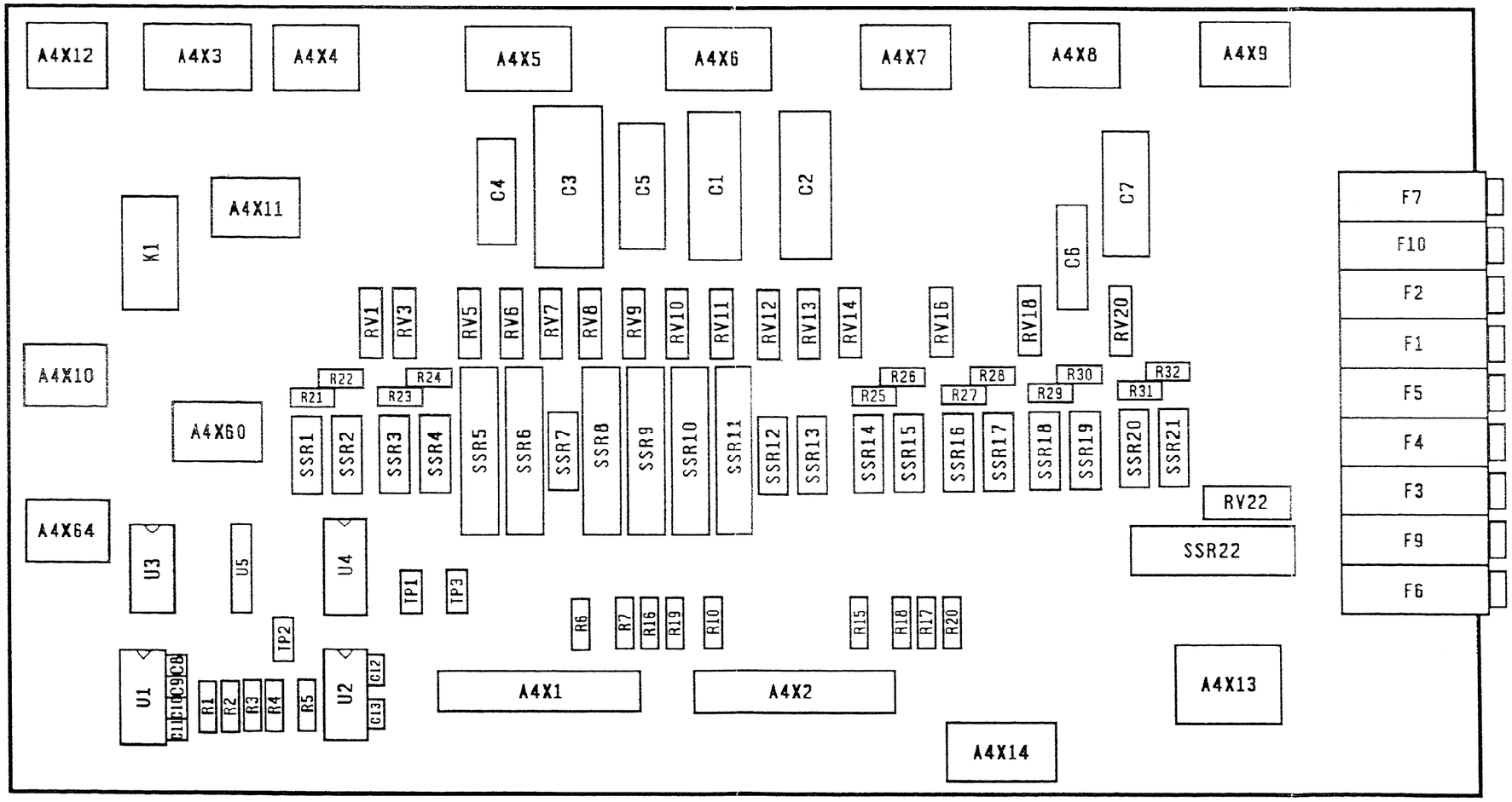
R122
R123
R124
R125
R126
R127
R128
R129
R130
R131
R132
R133
R134
R135
R136
R137
R138
R139
R140
R141
R142
R143
R144
R145
R146
R147
R148
R149
R150
R151
R152
R153
R154
R155
R156
R157
C40
C41
C42
C43
C44
C45
C46
C47
C48
C49
C50
C51
C28
C29
C30
C31
C32
C33
C34
C35

PCB A2

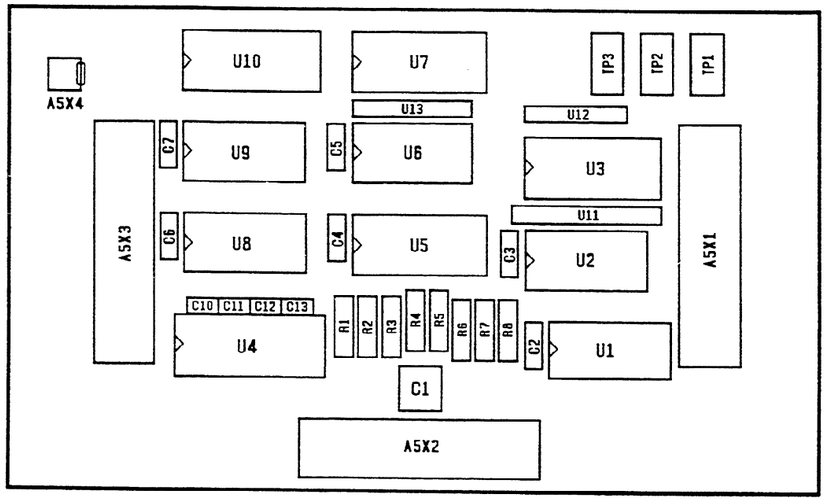

A3X2
R23
A3X4
TP2
TP1
TP0
R96
LED1
A3X3
TP9
R90
R91
R92
R93
R94
R95
Q2
D1
R24
C21
TP8
TP6
TP7
R82
C24
U15
D2
D3
D4
D5
C18
C19
R89
R88
R87
R86
R85
R84
R83
R21
R20
R19
R18
R17
R16
R15
R22
R80
Q1
C22
C23
U9
U14
U12
U13
U7
C17
C14
C36
C35
C34
C33
C32
C31
C30
C29
C28
C27
C26
C25
U8
D6
D7
D8
D9
C20
R81
A3X1
TP4
TP3
TP5

PCB A3

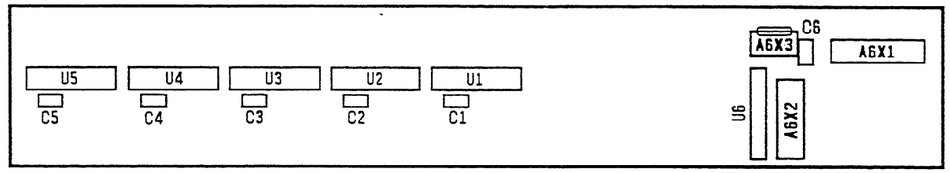


KODAK MULTILOADER 700
COMPONENT LOCATION PCB A4

WD 3053



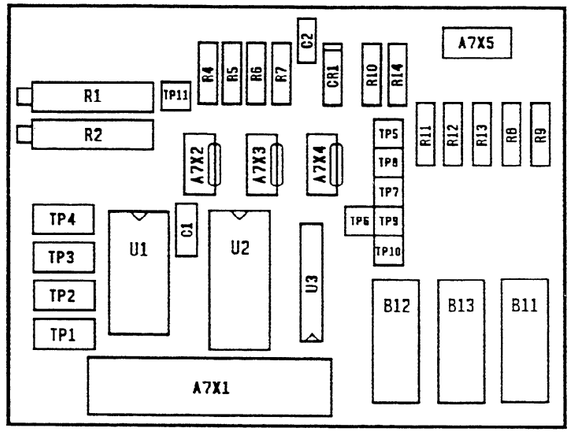
PCB A5



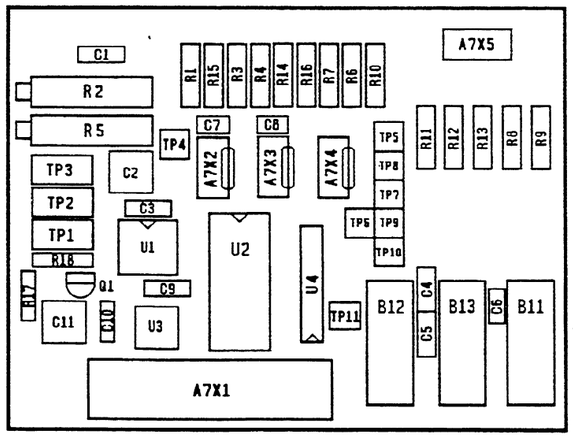
PCB A6

WD 3053

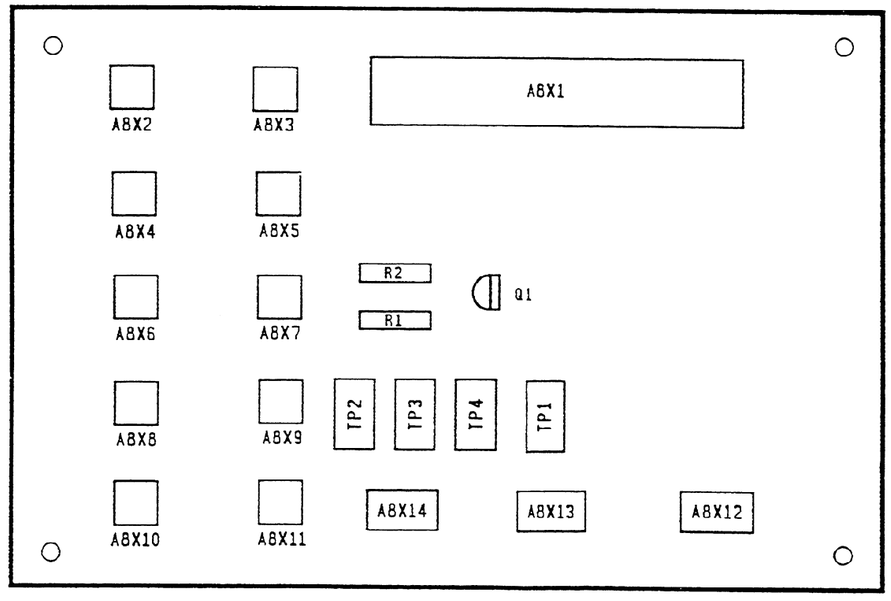
KODAK MULTILOADER 700
COMPONENT LOCATION PCB A5, A6



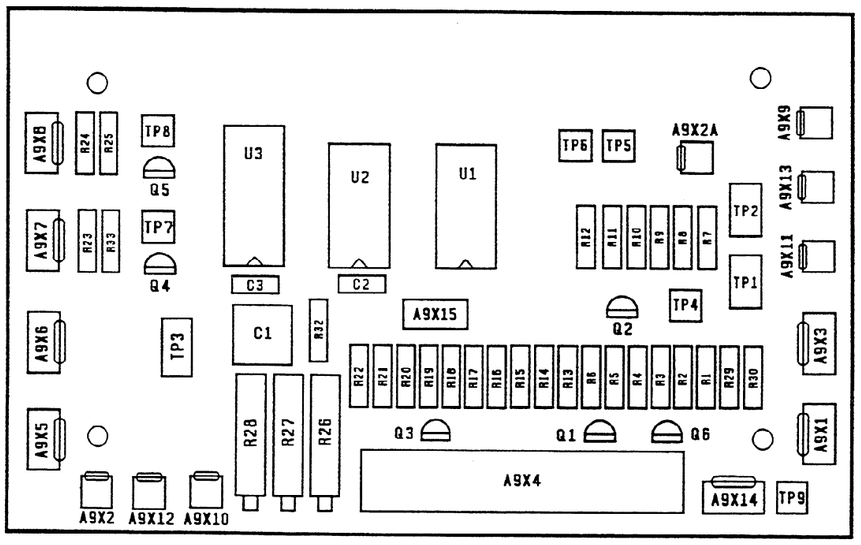
PCB A7 up to Serial Number 1022



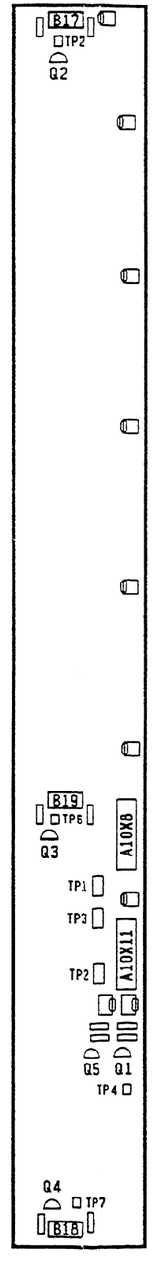
PCB A7 from Serial Number 1023



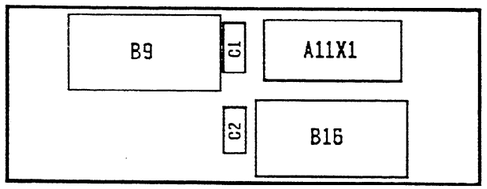
PCB A8



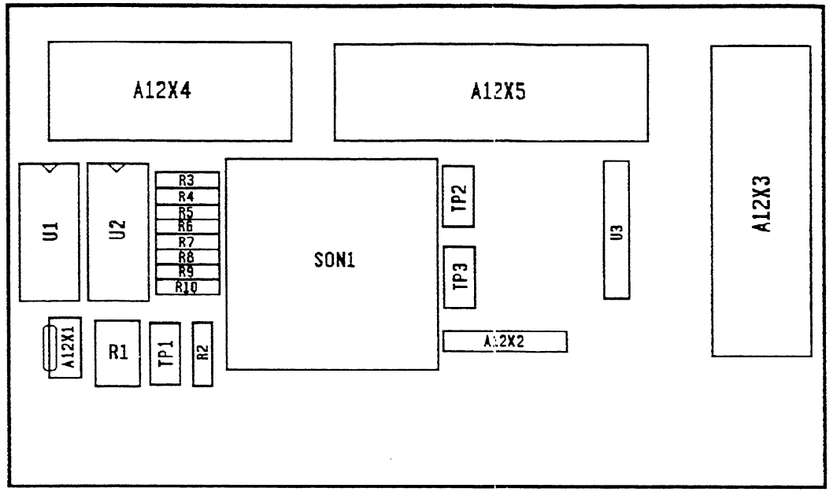
PCB A9



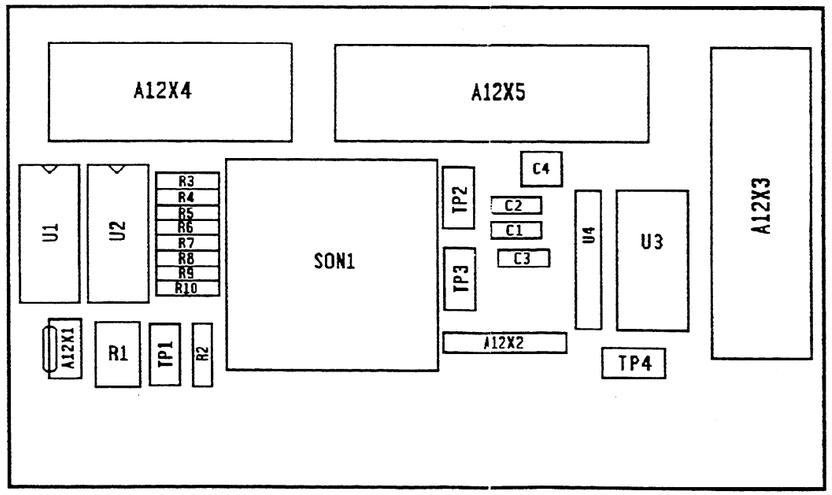
PCB A10



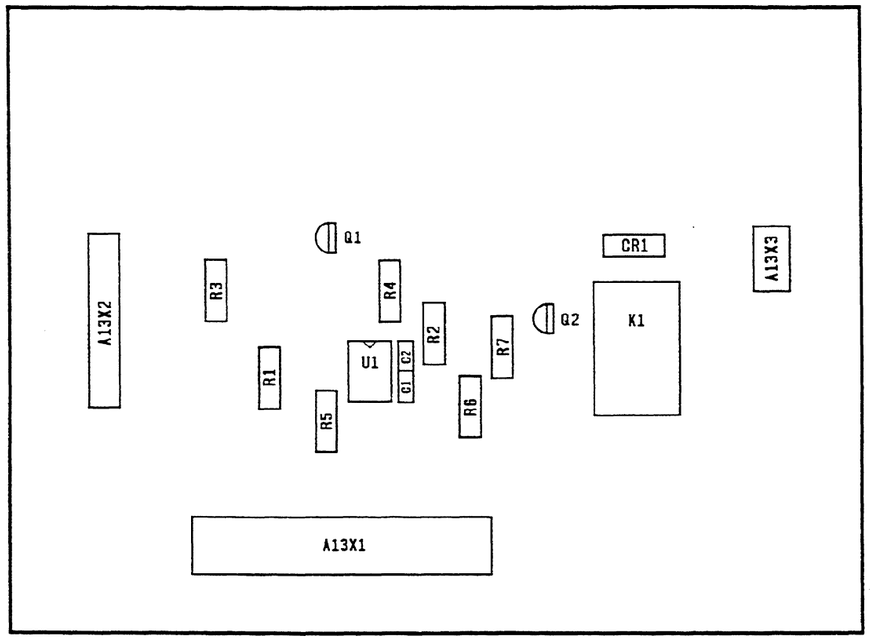
PCB A11



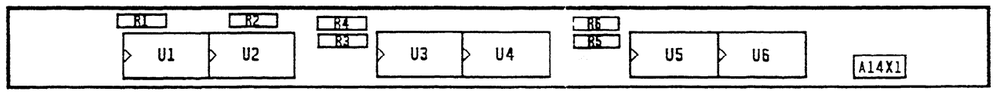
PCB A12 up to Serial Number 1205(50Hz)/5076(60Hz)



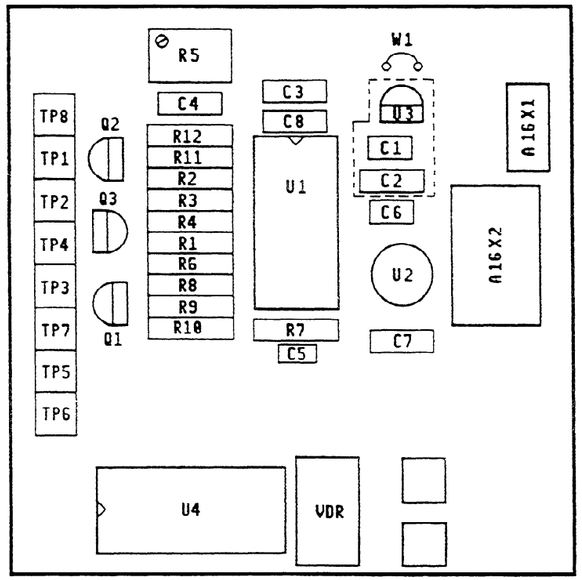
PCB A12 from Serial Number 1206(50Hz)/5077(60Hz)



PCB A13



PCB A14



KODAK MULTILOADER 700

COMPONENT LOCATION PCB A16

CASSETTE SUCKERBAR
FILMPOCKET SUCKERBAR
PIVOT FILMPOCKET SUCKERBAR
AIR INTO MAGAZINE
AIR INTO CASSETTE
TP -0.4 BAR
TP -0.4 BAR
TP +1.0 BAR
TP +2.0 BAR
FILTER
FILTER
SV1
SV3
SV6
SV5
SV4
SV2
PRESSURE REGULATOR
PRESSURE REGULATOR
VACUUMPUMP CASSETTE
VACUUMPUMP MAGAZINE
S30
M11
S29
M10
AIR SWITCH S28 COM
+3.5 .... +4.2 BAR
2L
AIR PRESSURE RESERVOIR
220V ~
F10
SSR + 13
SSR + 12
SSR 22
CHECK VALVE
+5V (V1)
VACUUMPUMP
AIR FILTER WITH WATER TRAP
WATER TRAP
F9
P/O PCB A4
SV7 BLEEDER VALVE
SAFETY VALVE
M9
COMPRESSOR

KODAK MULTILOADER 700

PNEUMATIC FUNCTIONAL DIAGRAM

WD 3053

CUSTOMER EQUIPMENT SERVICES KODAK AG STUTTGART GERMANY